# The Trade Wind Zone Oceanography Pilot Study Part III: <u>Townsend Cromwell</u> Cruises 8, 9, and 10 September to November 1964

By Robert L. Charnell, David W. K. Au, and Gunter R. Seckel

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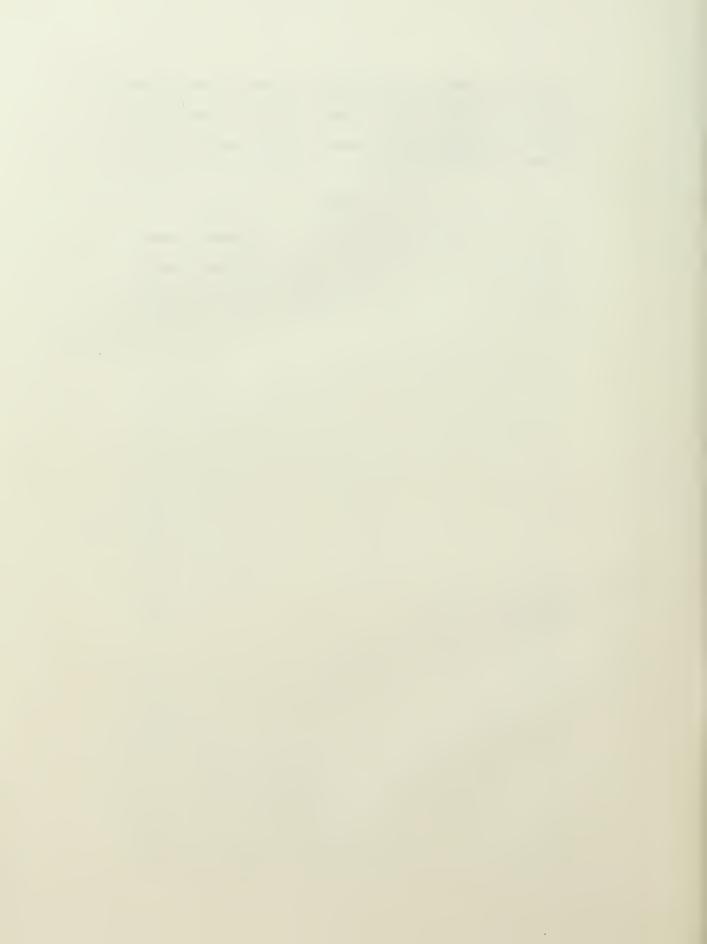


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# The Trade Wind Zone Oceanography Pilot Study Part III: Townsend Cromwell Cruises 8, 9, and 10 September to November 1964

Ву

Robert L. Charnell, David W. K. Au and Gunter R. Seckel

### **ABSTRACT**

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the third set of three cruises, Townsend Cromwell cruises 8, 9, and 10, September to November 1964, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10. Methods and procedures as well as the limitations of the data are discussed.

### INTRODUCTION

This is the third of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N, and long, 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity...) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 8th, 9th, and 10th cruises in the series. (Townsend Cromwell cruise 7 was a trawling cruise, not part of this series, and is not reported here.) Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V <u>Townsend</u> <u>Cromwell</u>. Cruises 8 and 10 were commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich; cruise 9 was commanded by Acting Master Jan Liefting, with Acting First Officer Pete Andrich. The scientific parties were composed of the following: Townsend Cromwell, cruise 8:

September 1 to 20, 1964

David W. K. Au - HL - Field Party Chief Claude E. Allen - HL Theodore K. Hirota - HL Lloyd T. Watarai - HL

George F. Heimerdinger - National Oceanographic Data Center

Roger B. Clapp - Smithsonian Institution

Dayle N. Husted - Smithsonian Institution

Townsend Cromwell, cruise 9:

October 1 to 20, 1964

Robert L. Charnell - HL - Field Party Chief

Arthur M. Bauckham, Jr. - HL

Robert M. Moncrief - HL

Lloyd T. Watarai - HL

Paul LaViolette - U.S. Naval Oceanographic Office

Dayle N. Husted - Smithsonian Institution Warren King - Smithsonian Institution

Townsend Cromwell, cruise 10:

November 4 to 24, 1964

Everet C. Jones - HL - Field Party Chief

Claude E. Allen - HL

Arthur M. Bauckham, Jr. - HL

Robert M. Moncrief - HL

R. J. Grishow - U.S. Naval Oceanographic Office

Dayle N. Husted - Smithsonian Institution Warren King - Smithsonian Institution

# OBSERVATIONS 1/

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

### **Biological**

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish which stranded themselves on deck were collected daily. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

### Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley2/pyranometer. These observations were supplemented by daily color photographs of clouds.

### Current

Ten plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. An additional 10 cards were released at hourly intervals during the first and last 12 hours of cruise 9 and during the first 12 and last 9 hours of cruise 10.

### PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.020/oo, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO4-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April The reported temperatures are estimated to be accurate to +0.02° C. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were performed with an IBM 7040 digital computer at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within +10 m. down to 1,000 m. and within +1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951).

<sup>1/</sup>AII data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

 $<sup>\</sup>frac{2}{\text{Trade}}$  names referred to in this publication do not imply endorsement of commercial products.

The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2° C. Except for cruise 10 the bucket salinity values were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about 0.03 0/oo and the root mean square value was within 0.15 0/oo for each cruise.

### PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 8, 9, and 10, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain cal-

culated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148° W., 151° W., 154° W., and 157° W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 8, figures 8 through 13 for cruise 9, and figures 14 through 19 for cruise 10.

The surface temperature distributions, based on bucket temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 8, 9, and 10, respectively.

The surface salinity distributions, based on bucket salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 8, 9, and 10, respectively.

The dynamic topography, relative to 1,200 m. for cruises 8 and 9 and 1,000 m. for cruise 10, is shown in figures 26, 27, and 28, respectively.

### **ACKNOWLEDGMENTS**

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

### LITERATURE CITED

BARKLEY, RICHARD A., BERNARD M. ITO, and ROBERT P. BROWN.

1964. Releases and recoveries of drift bottles and cards in the central Pacific. U.S. Fish Wildl. Serv., Spec. Sci. Rep. Fish. 492, iii + 31 p. LaFOND, EUGENE C.

1951. Processing oceanographic data. U.S. Navy Hydrographic Office Publ. 614, 114 p.

PAQUETTE, ROBERT G.

1958. A modification of the Wenner-Smith-Soule salinity bridge for the determination of salinity in sea water. Dep. Oceanogr. Univ. Wash., Tech. Rep. 61, 57 p. RATTRAY, MAURICE, JR.

1962. Interpolation errors and oceanographic sampling. Deep-Sea Res. 9: 25-37.

ROBINSON, REX J., and THOMAS G. THOMPSON.

1948. The determination of phosphates in sea water. J. Mar. Res. 7: 33-41.

THOMPSON, THOMAS G., and REX J. ROBINSON.

1939. Notes on the determination of dissolved oxygen in sea water. J. Mar. Res. 2: 1-8.

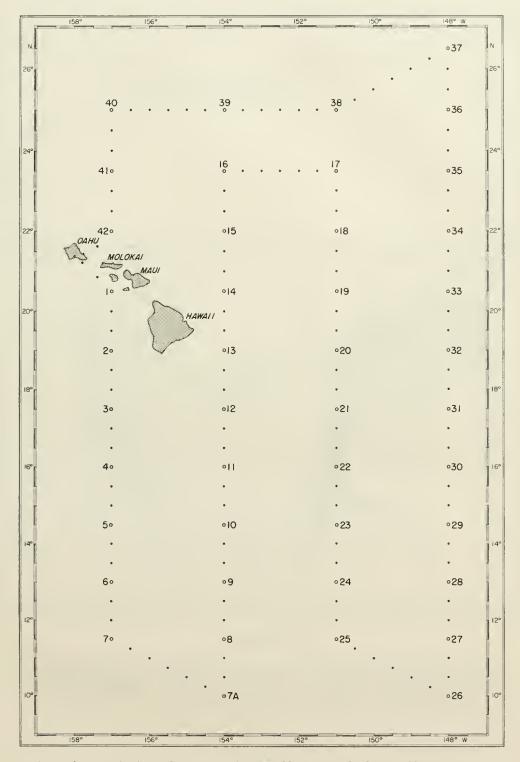


Figure 1.--Track chart for <u>Townsend Cromwell</u> cruises 8, 9, and 10. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

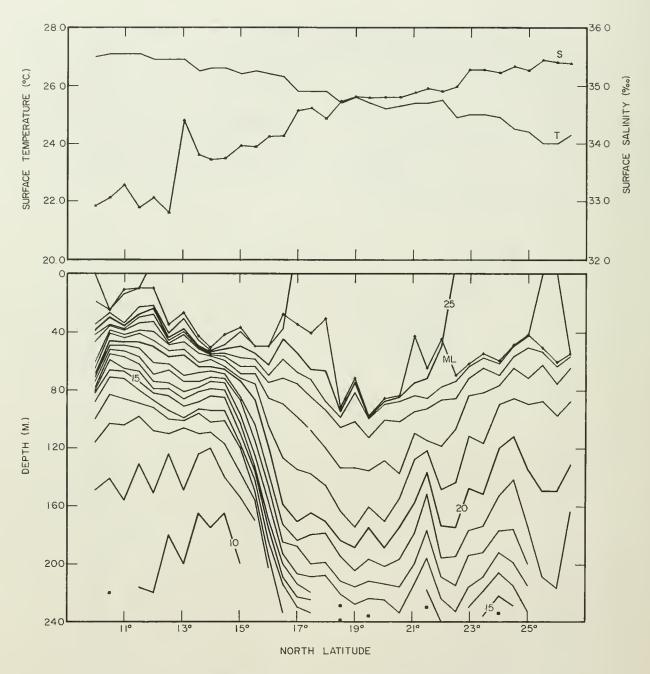


Figure 2.--Surface temperatures (° C.) and salinities ( $^{\circ}$ /o $^{\circ}$ ) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

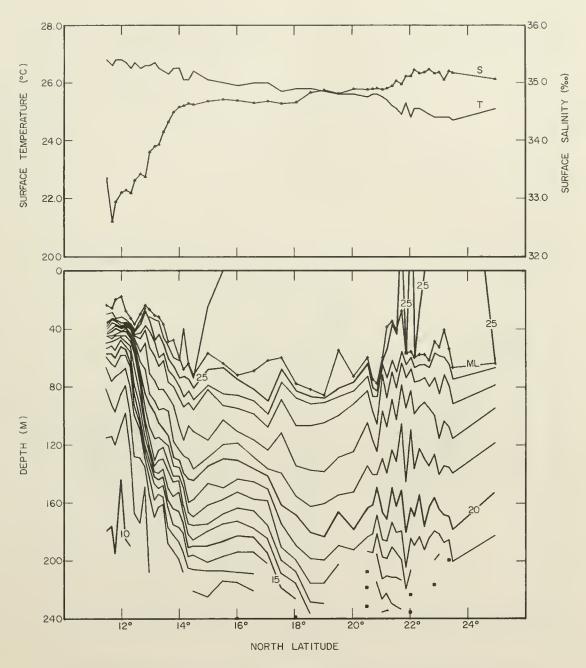


Figure 3.--Surface temperatures (° C.) and salinities ( $^{\text{O}}$ /oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

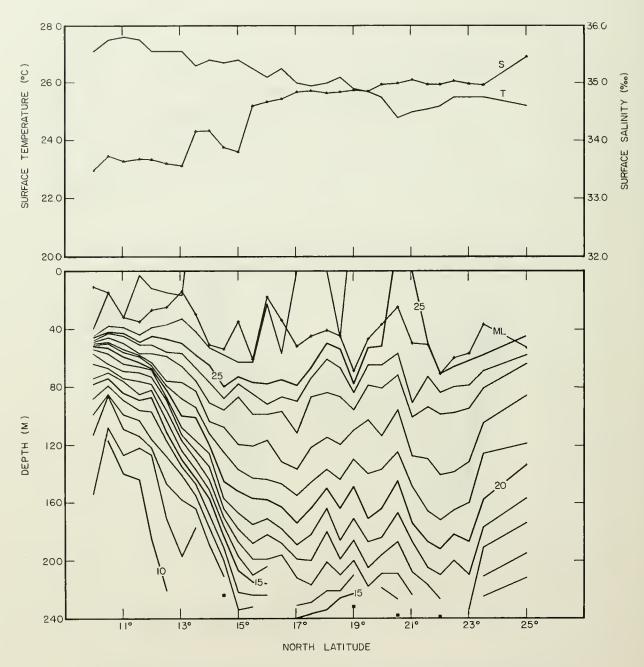


Figure 4.--Surface temperatures (° C.) and salinities ( $^{\rm O}$ /oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 along long, 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

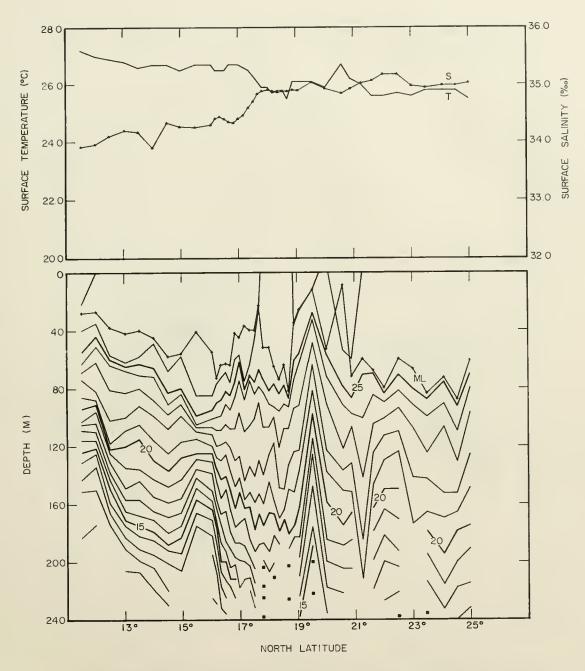


Figure 5.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

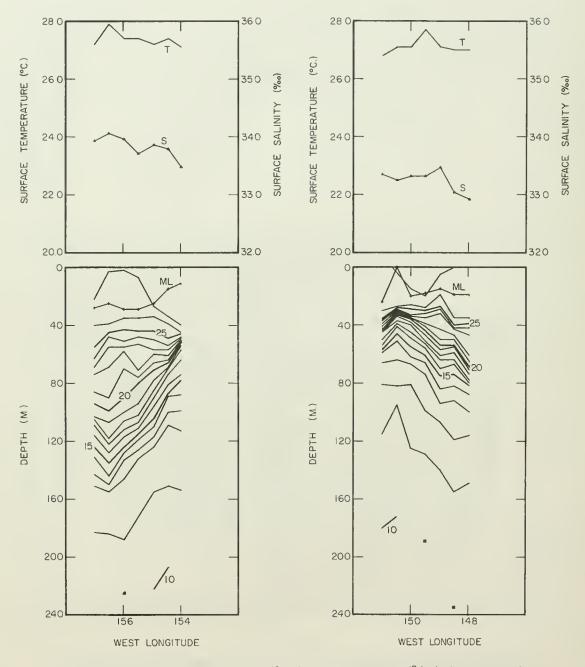


Figure 6.--Surface temperatures (° C.) and salinities ( $^{\rm O}$ /oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

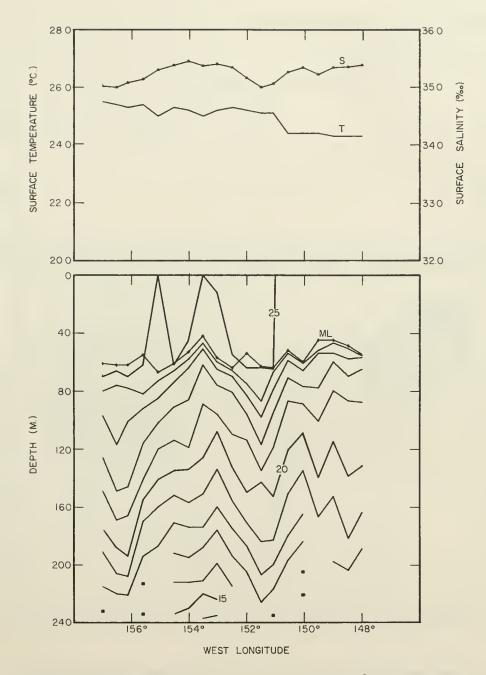


Figure 7.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 8 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

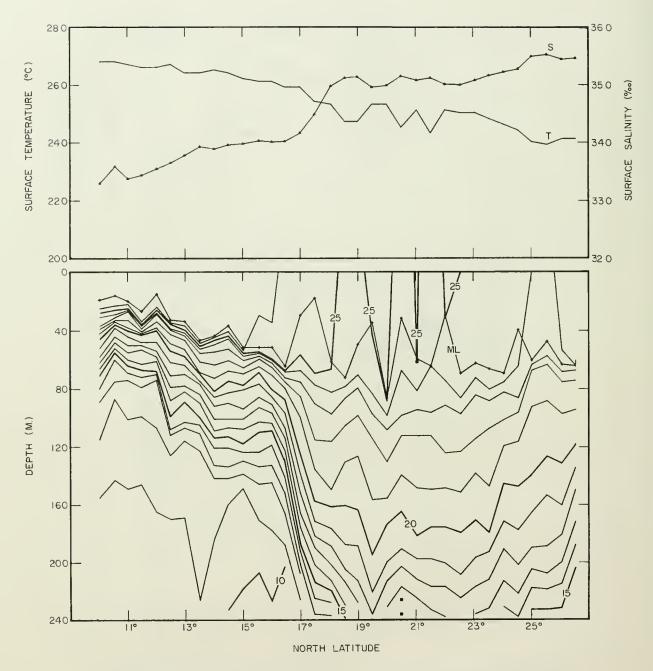


Figure 8.--Surface temperatures (° C.) and salinities ( $^{\text{O}}$ /oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 9 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

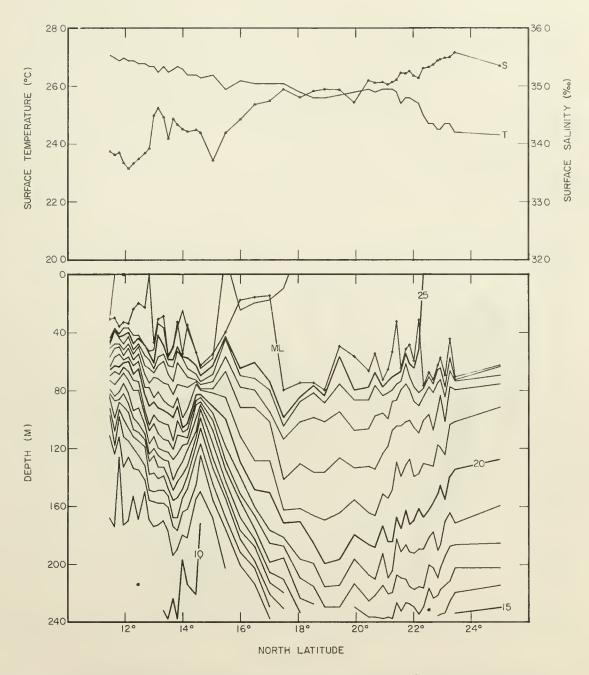


Figure 9.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 9 along long, 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

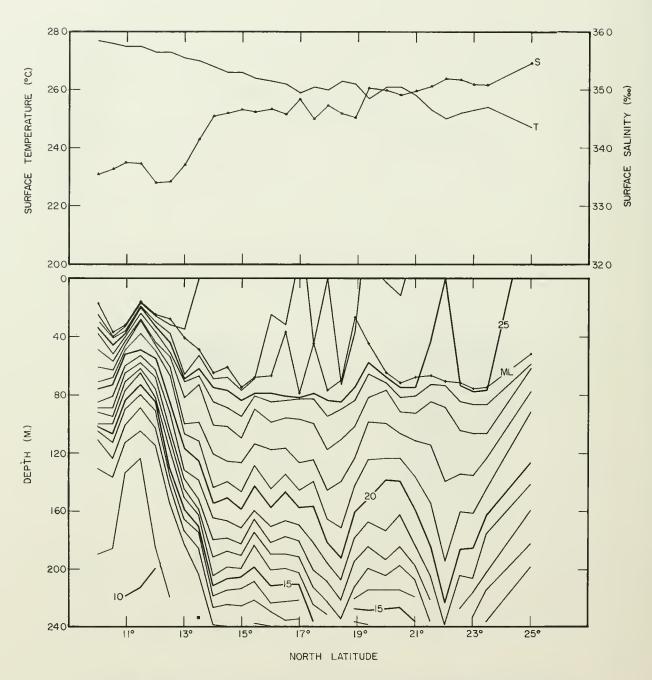


Figure 10.--Surface temperatures (° C.) and salinities ( $^{\rm O}$ /oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 9 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

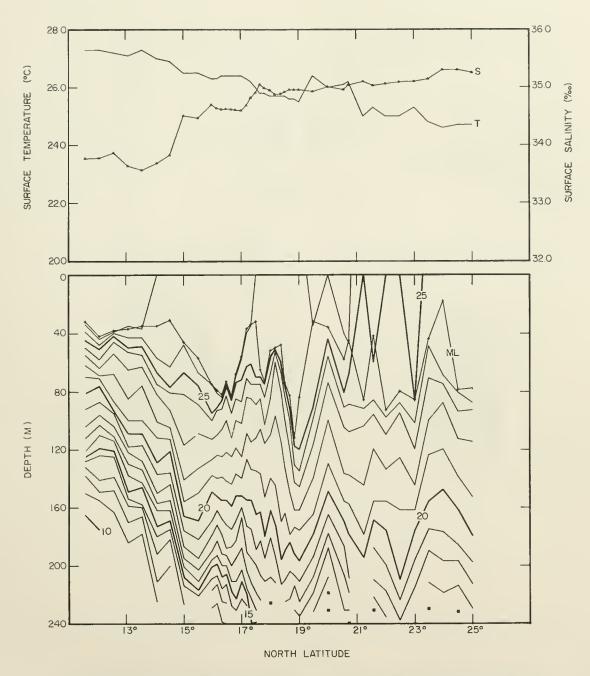


Figure 11.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 9 along long, 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

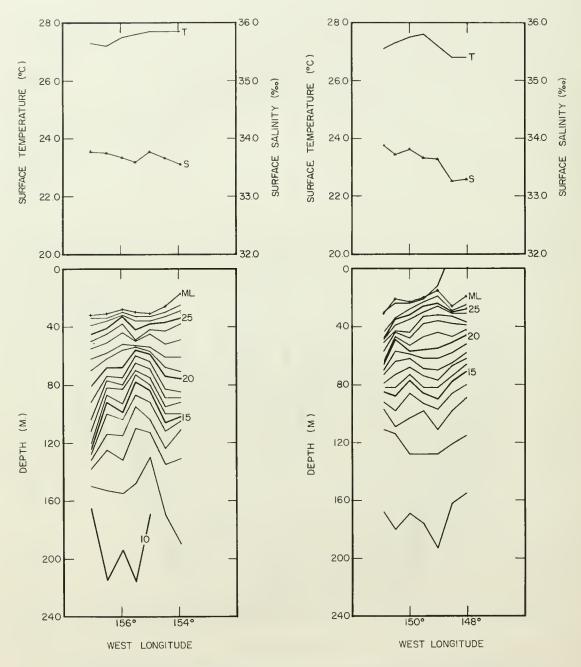


Figure 12.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 9 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

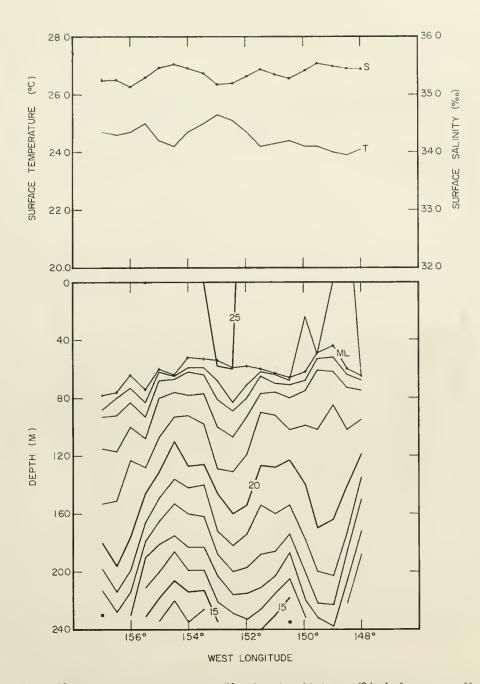


Figure 13.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 9 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

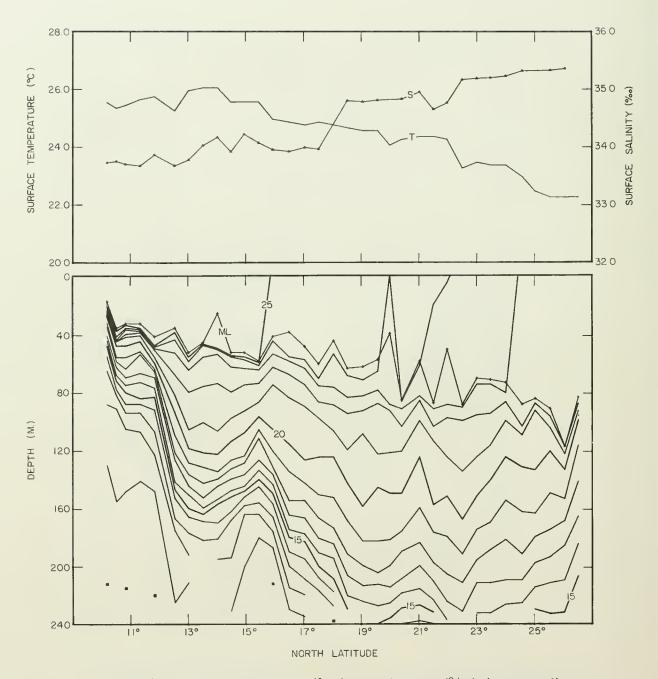


Figure 14.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 10 along long, 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

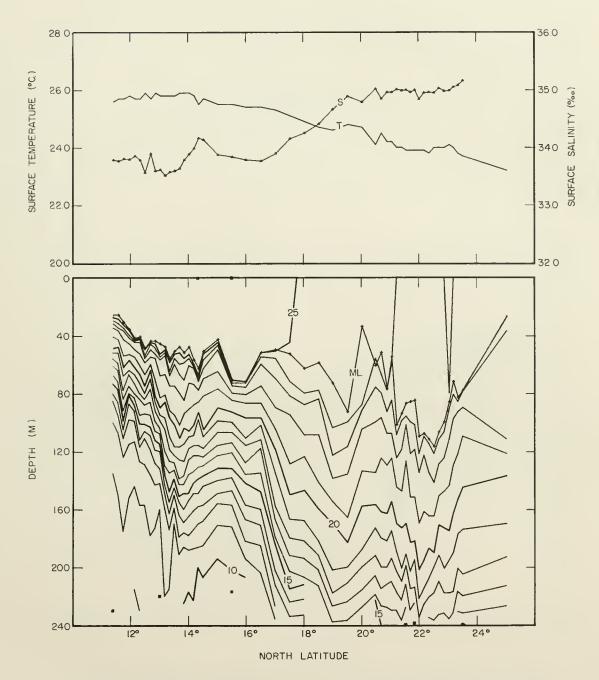


Figure 15.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 10 along long, 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

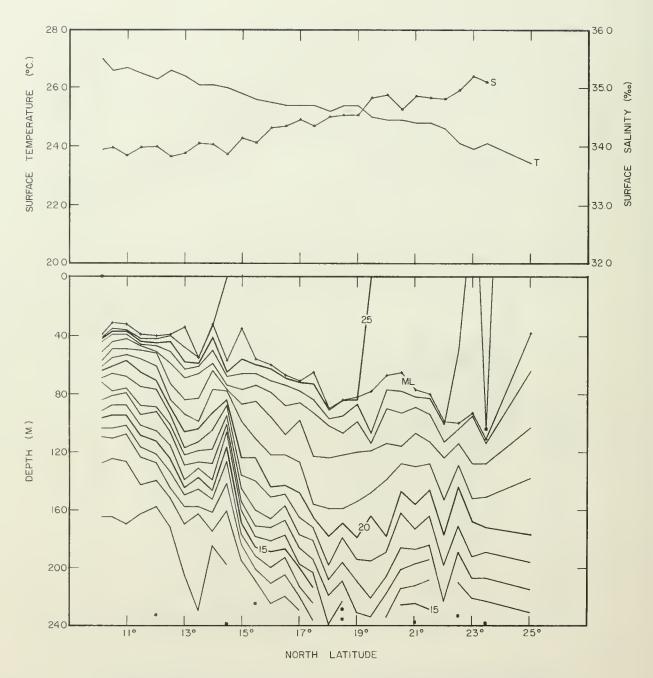


Figure 16.--Surface temperatures (° C.) and salinities ( $^{\rm O}$ /oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 10 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

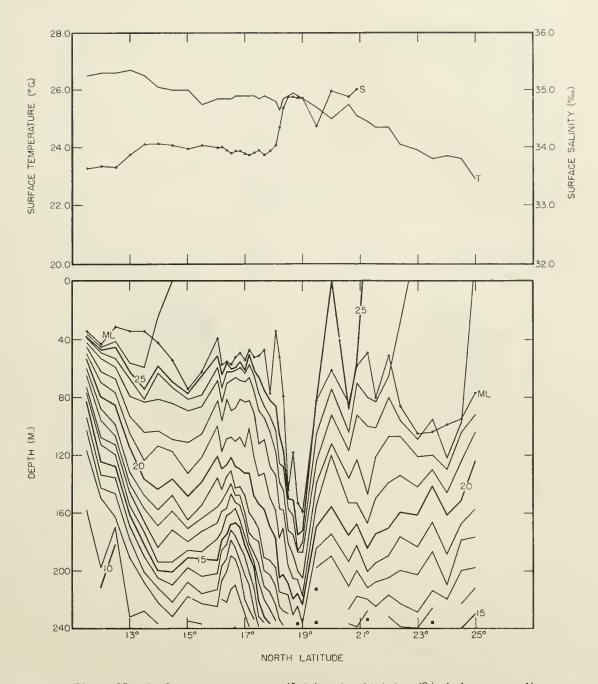


Figure 17.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 10 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

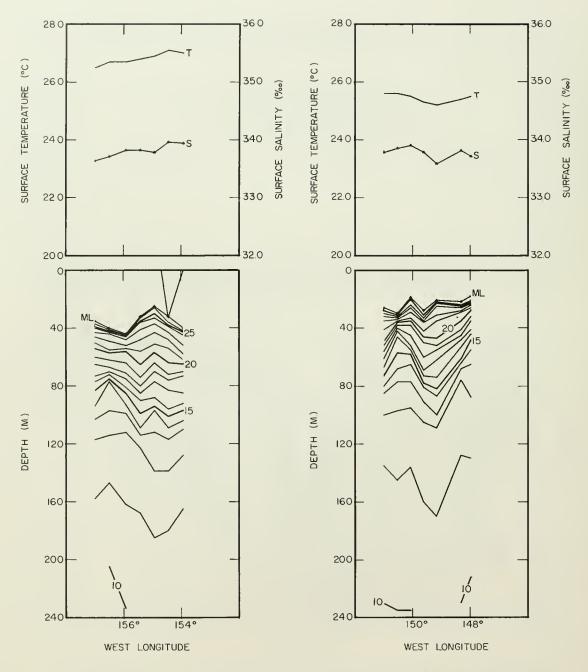


Figure 18.--Surface temperatures (° C.) and salinities ( $^{0}$ /oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 10 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

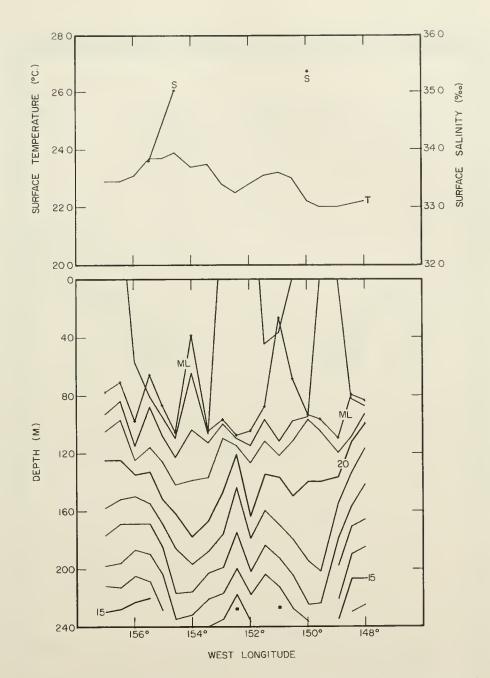


Figure 19.--Surface temperatures (° C.) and salinities (°/oo) (upper panel) and zonal BT temperature (° C.) section (lower panel) for <u>Townsend Cromwell</u> cruise 10 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

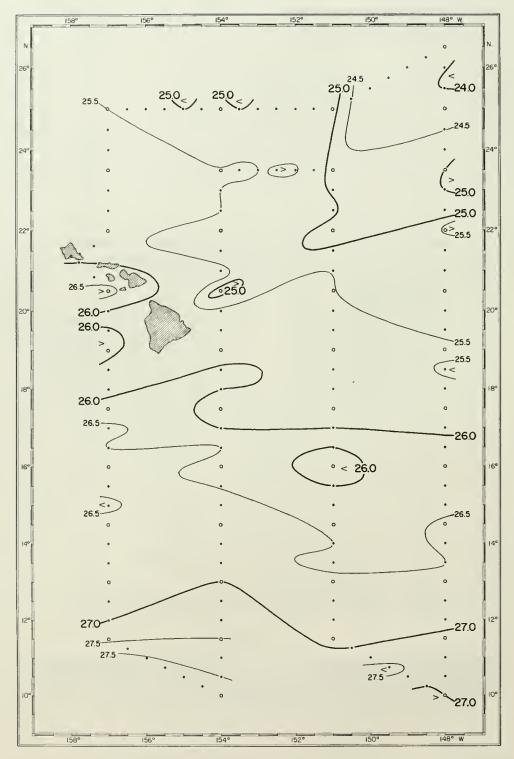


Figure 20.--Surface temperature distribution (° C.) based on bucket temperature at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 8.

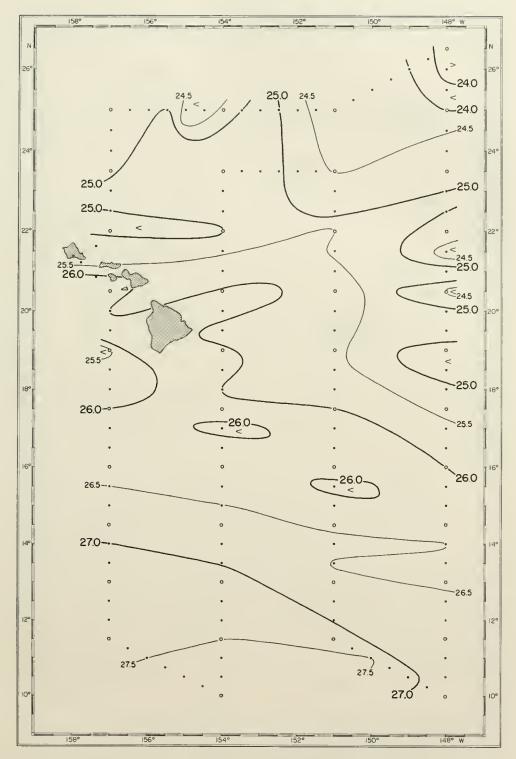


Figure 21.--Surface temperature distribution (° C.) based on bucket temperature at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 9.

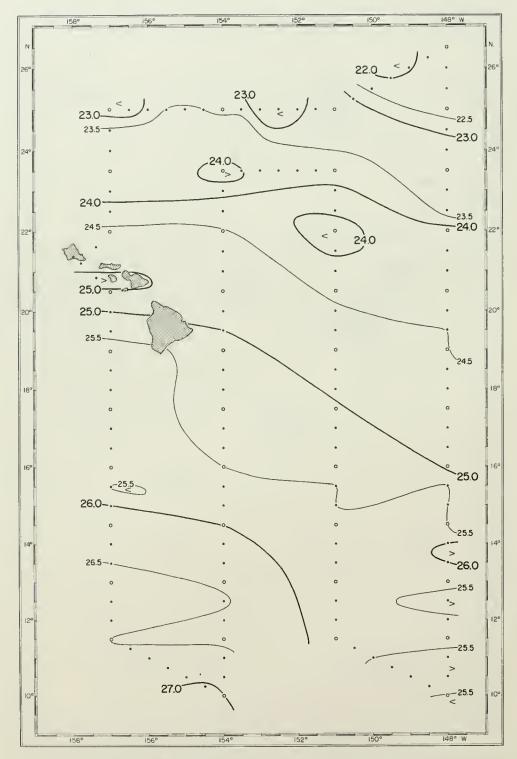


Figure 22.--Surface temperature distribution (° C.) based on bucket temperature at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 10.

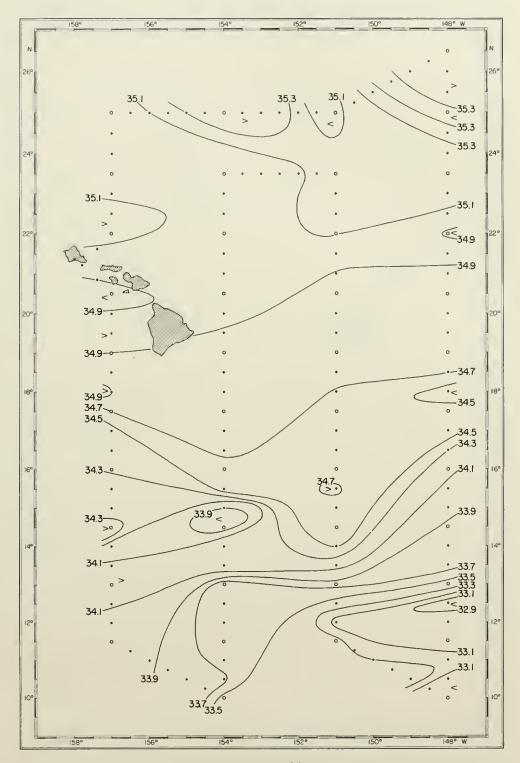


Figure 23.--Surface salinity distribution ( $^{\circ}$ /o $_{\circ}$ ) from bucket salinity samples at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 8.

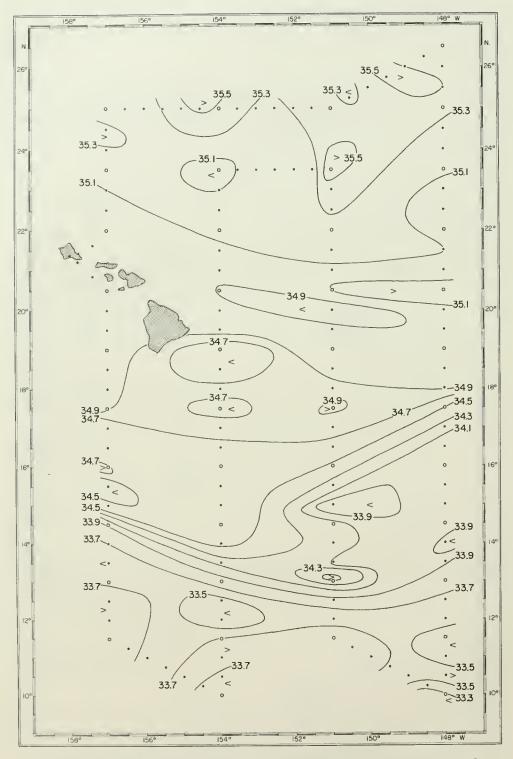


Figure 24.--Surface salinity distribution ( $^{\circ}$ / $^{\circ}$ ) from bucket salinity samples at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 9.

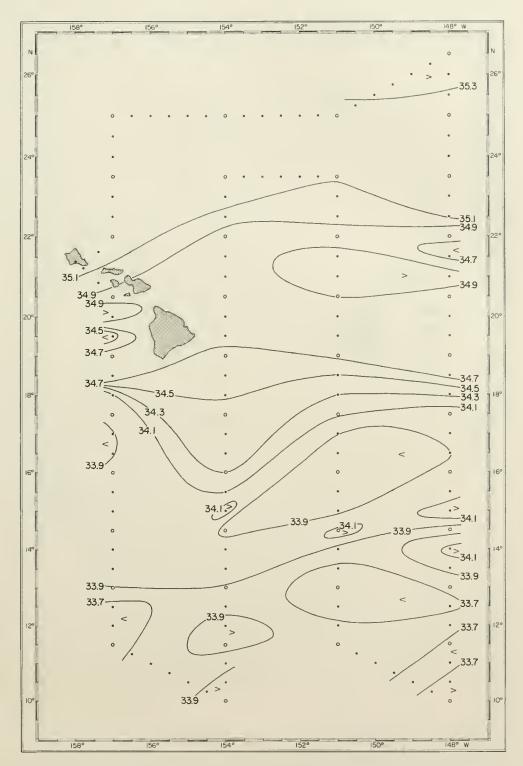
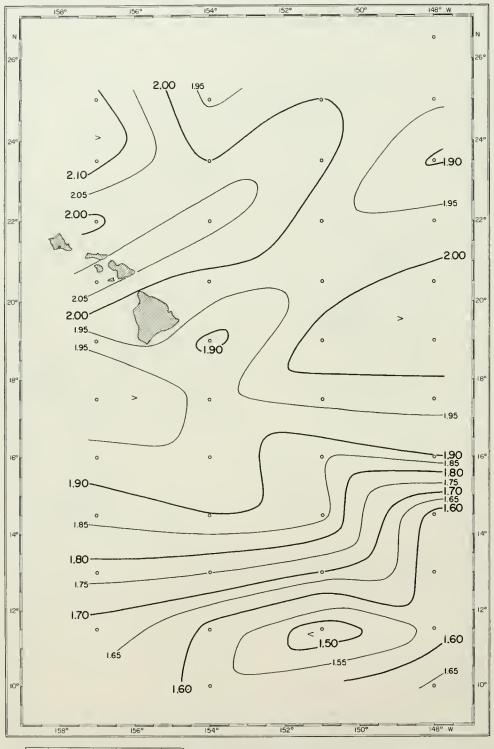
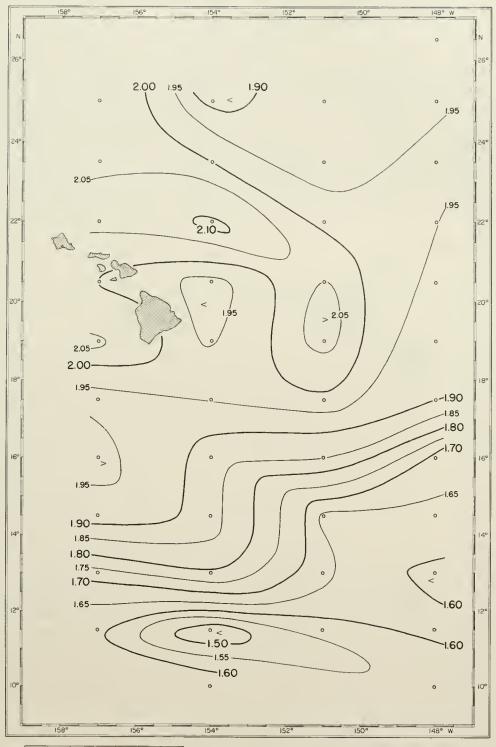


Figure 25.--Surface salinity distribution ( $^{\circ}$ /o $_{\circ}$ ) from bucket salinity samples at each BT cast for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 10.



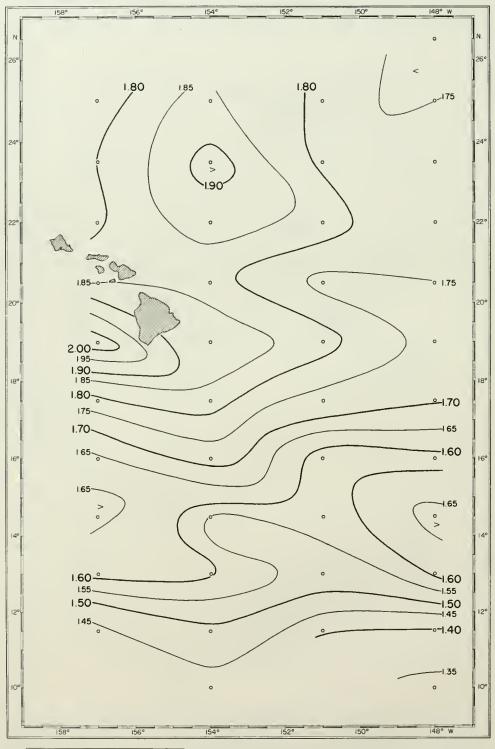
O 10 20 30 40 50 60 70 VELOCITY (CM/SEC)

Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 8.



O 10 20 30 40 50 60 70 VELOCITY (CM /5EC)

Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for <u>Townsend Cromwell</u> cruise 9.



0 10 20 30 40 50 60 70 VELOCITY (CM/SEC)

Figure 28.--Dynamic topography (dynamic meters) relative to 1,000~m. for  $\underline{\text{Townsend}}$   $\underline{\text{Cromwell}}$  cruise 10.

## TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate (PO<sub>4</sub>-P) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as sigma-t; specific volume anomaly (delta) in  $10^5$  cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 8

	OF	RIGINAL DAT	ΓΑ		DERIVE	D DATA	1		INTERPOLA	TED DATA-		
CROPWELL ORY BULB		STATION WET BULB			7-16W LCNG 0 12, OIR.		1964, 06 R. 16	00 G.C.T. WEATHER 01	VI5. 9	CLOUO	TYPE 8,	COVER 2
0EPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.CPTH.
0.	26.84	34.72			22.58	527.6	0.	26.84	34.72	22.58	527.6	0.000
10.	26.84	34.84			22.67	519-4	10.	26.84	34.84	22.67	519.4	0.053
51.	26.14	34.86			22.91	498.5	20.	26.77	34-86	22-71	516.2	0.105
76.	25.16	35.06			23.36	456.2	30.	26.64	34.87	22.76	511.7	0.157
102.	23.60	35.12			23.87	408.3	50.	26.17	34.86	22.90	499.2	0.259
127.	22.44	35.16			24.24	374 -4	75.	25.21	35.05	23.34	458.1	0.379
153.	20.59	35.04			24.65	335-1	10C.	23.72	35.12	23.83	411.8	0.489
178.	18.98	34.92			24.98	304.3	15C.	20.82	35.06	24.61	339.5	0.673
193.	18.12*	34.86			25.15	288.5	200.	17.73	34.82	25.22	282.5	0.835
226.	16.36	34.66			25.42	263.5	25C.	15.19	34.54	25.59	247.5	0.968
254.	14.97	34.52			25.63	244.4	3CC-	12.00	34.27	26.04	205.1	1.082
279.	12.96	34.34			25.91	217.5	400.	8.51	34.15	26.55	156.5	1.265
304.	11.86	34.26			26-C6	203.2	500.	6.74	34.02	26.71	141.7	1.415
405.	8.38	34.15			26.57	154.7	600.	5.68	34.14	26.93	120.6	1.548
506.	6.67	34.02			26.71	141.1	70C.	5.13	34.30	27.13	102-3	1.660
607.	5.63	34.15			26-95	119.0	800.	4.82	34.45	27.28	88.7	1.757
8C8.	4.80	34.46			27.29	87.6	1000.	4.15	34.52	27.41	77.2	1.925
1009.	4.12	34.52			27.41	76.9	120C •	3.53	34.56	27.50	68.5	2.072
1209.	3.50	34.56			27.51	68.2	1500.	2.88	34.59	27.59	60.5	2.269
1511.	2.86	34.59			27.59	60.3						

CROPHELL ORY BULB		STATION WET BULB		3N LAT, 156 WINC SPEEC			2, 1964, 17 MAR- 14	CO G.C.T. WEATHER C3	V15. 6	CLCUC	TYPE 8,	COVER 4
0EP1H	TEMP.	SAL.	EXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.OPTH
0.	26.16	34.88			22.91	495.6	C -	26.16	34.88	22.91	495.6	0.000
10.	26.14	34.88			22.92	495.4	10.	26-14	34.08	22.92	495.4	0.050
20.4	26.12	34.90			22.94	493.8	20.	26.12	34.90	22.94	493.8	0.100
30.	26.09	34.92			22.97	491.8	30.	26.09	34.92	22.97	491.8	0.149
51.	24.43	34.92			23.47	444.2	50.	24.53	34.92	23.44	447:0	0.244
77.	23.04	35.04			23.97	397.5	75.	23.12	35.C3	23.94	400.5	0.351
101.	22.27	35.09			24-23	373.8	100.	22.30	35.09	24.22	374.8	0.448
126.	20.85	35.14			24.66	333.6	150.	19.93	35.05	24.84	317.3	0.623
176.	18.92	34.90			24.98	304.2	200-	17.43	34.77	25.25	279.2	0.773
192.	18.04	34.83			25.15	288-7	250.	13.87	34.38	25.75	232.0	0.902
225-	15.43	34.55			25.55	251.1	300.	11.31	34.22	26.13	195.9	1.010
253.	13.70	34.36			25.77	229.9	400.	7.87	34.16	26.65	146.3	1.182
279.	12.19	34.25			25.99	209.4	500-	6.29	34.29	26.98	115.6	1.315
303.	11.20	34.22			26.15	194.1	600.	5.64	34.36	27.11	103.7	1.426
403.	7.79	34.16			26.67	145.1	700.	5.19	34.40	27.20	95.8	1.526
505.	6.25	34.30			26.99	114.7	ecc.	4.83	34.44	27.27	89.7	1.620
606.	5.62	34.36			27-12	103.3	1CCC.	4-30	34.52	27.39	79.3	1.791
806.	4.81	34.44			27-27	89.4	1200.	3.67	34.57	27.50	69.5	1.942
1006.	4.29	34.52			27.40	79.0	1500.	2.87	34.58	27.58	61.0	2.140
1206.	3.65	34.57*			27.50	69.2						
1506.	2.85	34.58			27.59	60.9						

JEMPERATURE	ERRCR	TERM	AT	150.	METERS	15	0.10

CROPWELL ORY BULB		STATION WET BULE		ON LAT, 157- WING SPEEC			1964, 04 R. 13	CO G.C.T. WEATHER OI	VIS. 9	CLENO	TYPE 8,	COVER 1
0EPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	OELIA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH
0.	26.43	34.68			22.68	518.1	0.	26.43	34.68	22.68	518.1	0.000
10.	26.45	34.68			22.67	519.1	1C.	26.45	34.68	22.67	519.1	0.052
30.△	26.44	34.68			22.68	519.6	20.	26.47	34.67	22.66	520.7	0.105
50.	26.11	34.81			22.88	501.2	30.	26.44	34.68	22.68	519.6	0.157
76.	23.89	34.86			23.59	434.1	50.	26.11	34.81	22.88	501.2	0.260
101.	22-89	35.14			24.09	387.1	75.	23.98	34.86	23.56	436.9	0.378
126.	22.53	35.16			24.21	376.8	100-	22.91	35.13	24.08	388.5	0.482
151.	20.89	34.98			24.53	347.1	150.	20.96	34.99	24.51	348.5	0.668
176.	19.89	35.€			24.86	316.7	200.	17.66	34.76	25.19	285.2	0.827
192.	18.68	34.88			25.C3	300.4	250.	12.33	34.28	25.98	209.5	0.952
225.	14.37	34.42			25.68	238.3	300.	10.42	34.24	26.30	179.4	1.050
252.	12.21	34.27			26.0C	207.7	400.	8.35	34.34	26.72	140.5	1.211
278.	11.06	34.22			26.18	191.1	500.	7.97	34.42	26.84	130.5	1.348
303.	10.35	34.24			26.32	177.9	60C.	6.34	34.44	27.09	106.9	1.468
404.	8.30	34.34			26.73	139.5	700.	5.46	34.46	27.21	95.1	1.570
505.	7.96*	34.42			26.85	130.2	eco.	5.07	34.48	27.28	89.8	1.664
606.	6.23	34.44			27.1C	105.5	1000.	4.41	34.52	27.38	80.5	1.836
807.	5.06	34.48			27.28	89.6	1200.	3.76	34.54	27.47	72.8	1.991
1007.	4.39	34.52			27.38	80.3	1500.	3.01	34.58	27.57	62.9	2.198
1207.	3.74	34.54			27.47	72.5						
1505.	3.00	34.58			27.57	62.7						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.13 TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

Table 1.--Continued

	C	RIGINAL DA	TA——AT	+	DERIVE	D DATA	+		INTERPOLA	TED DATA-		
CROPWELL CRY BUL8		STATION WET BULB		2N LAT, 157- WIND SPEED			1964, 14 R. 13	CO G.C.T. WEATHER O2	VIS. 4	CEGUD	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPTH
0.	26.74	34.30			22.30	554.8	0.	26.74	34.30	22.30	554.8	0.000
10.	26.77	34.30			22.29	556.1	10.	26.77	34.30	22.29	556.1	0.056
20.,	26.73	34.34			22.33	552.4	20.	26.73	34.34	22.33	552.4	0.112
3C -∆	26.50	34.44			22.48	538.7	30.	26.50	34.44	22.48	538.7	0.167
5Ç.	26.50	34.62			22.61	526.5	5C.	26.50	34.62	22.61	526.5	0.274
76.	26.32	34.81			22.81	508.5	75.	26.36	34.81	22.80	509.9	0.405
101.	23.12	34.72			23.71	423.7	100.	23.29	34.72	23.66	428.0	0.523
125.	18.88	34.76			24.89	311.7	150.	16.11	34.55	25.40	263.6	0.697
151.	16.02	34.54			25.41	262.4	200.	11.83	34.22	26.04	203.0	0.815
176.	13.18	34.26			25.80	224.9	250.	10.89	34.43	26.37	172.2	0.909
192.	12.19	34.22			25.97	209.5	300.	10.45	34.57	26.56	155.5	0.992
224.	11.12	34.28			26.21	186.5	400 -	9.22	34.60	26.79	134.3	1.138
252.	10.89	34.44			26.38	171.4	500.	8.19	34.56	26.92	123.1	1.268
288.	10.73	34.52			26.47	163.5	600.	7.12	34.50	27.03	113.2	1.387
303.	10.38	34.58			26.58	153.4	700.	6.27	34.49	27.14	103.3	1.497
403.	9.20	34.60			26.79	134-4	ecc.	5.60	34.51	27.24	94.4	1.597
505.	8.14	34.5€			26.93	122.6	1000-	4.62	34.52	27.36	82.9	1.776
605.	7.07	34.50			27.04	112.8	1200.	3.85	34.55	27.46	73.3	1.934
805.	5.57	34.51			27.24	94.0						24751
983.	4.69	34.52			27.35	83.8						
1117.	4.15	34.54			27.43	76.8						
1305.	3.52	34.56			27.51	69.1						

CRCMWELL DRY BUL8		STATION WET BULB			7- 1W LCNG. D 16. CIR.		, 1964, 24 AR. 12	OO G.C.T. WEATHER 51	V15.	4 CLDU	TYPE O,	COVER 8
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	TEMP.	SAL.	SICMA-T	DELTA	DYN.DP7H
0.	26.76	34.40			22.36	548.2	C.	26.76	34.40	22.36	548.2	0.000
10.	26.72	34.31			22.31	553.9	10.	26.72	34.31	22.31	553.9	0.056
30•△	26.68	34.3€			22.36	549.9	20.	26.70	34.32	22.32	553.2	0.111
50.△	26.6C	34.40			22.41	545.4	3C.	26.68	34.36	22.36	549.9	0.167
72.	24.81	34.61			23.13	478.2	50.	26.60	34.40	22.41	545.4	0.277
96.	22.23	34.85			24.06	389.9	75.	24.49	34.64	23.25	466.7	0.405
120.	20.36	34.98			24.67	332.4	100.	21.91	34.89	24.18	378.8	0.511
144.	18.05	34.82			25.14	288.1	150.	17.68	34.77	25.19	283.3	0.678
167.	16.33	34.59			25.38	266 . I	200.	12.75	34.28	25.91	215.6	0.804
181.	14.24	34.40			25.69	235.9	250-	10.17	34.35	26.43	165.8	0.900
212.	12.14	34.26			26.01	206.1	300.	9.84	34.53	26.63	148.2	0.979
237.	10.42	34.25			26.31	176.9	400-	8.37	34.54	26.88	125.3	1.117
260.	10.13	34.43			26.50	159.3	500.	7.30	34.51	27.02	113.4	1.237
283.	10.04	34.50			26.57	153.1	€CC.	6.48	34.51	27.12	104.0	1.347
375.	8.68	34.55			26.84	129.3	700.	5.84	34.51	27.20	96.5	1.448
467.	7.62	34.52			26.97	117.1	800.	5.33	34.52	27.28	90.0	1.543
553.	6.84	34.51			27.C8	108.0	TCCO.	4.56	34.56	27.39	79.7	1.714
743.	5.61	34.51			27.24	93.8	1200.	3.83	34.57	27.49	71.1	1.867
928.	4.81	34.55			27.3€	82.6						
1112.	4.18	34.56			27.44	75.7						
1334.	3.36	34.58			27.54	65.9						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.14

CROMWELL DRY 8UL8		STATION WET BULB			7- 4W LCNG C 18, CIR.		1964, 120 R. 12	CO G.C.T. WEATHER OI	V15.	8 CLCUD	TYPE ,	COVER
DEPTH	TEMP.	SAL.	OXY.	P04-P	SICMA-I	CELTA	CEPTH	TEPP.	SAL.	SICMA-T	CELTA	DYN.DPTH.
0.	26.93	34.18			22.14	569-2	0.	26.93	34.18	22.14	569.2	0.000
11.	26.96	34.19			22.14	569.8	10.	26.96	34.19	22.14	570.2	0.057
31.	26.84	34.46			22.38	547.6	20.	26.93	34.28	22.22	562.5	0.114
50.	26.56	34.82			22.74	514.0	30.	26.85	34.44	22.37	549.2	0.170
77.	22.92	35.02			23.99	395.6	50.	26.56	34-82	22.74	514.0	0.278
102.	21.39	35.04			24.44	354.0	75.	23.22	35-C1	23.90	404.2	0.393
127.	19.04	34.91			24.96	304.7	100.	21.49	35.04	24.41	356.4	0.489
153.	16.8C	34.65			25.31	271.8	150.	17.08	34.68	25.27	275.6	0.648
192.	11.52	34.24			26.11	195.8	200.	11.03	34.24	26.19	187.7	0.765
226.	10.24	34.31			26.39	169.2	25C.	9.98	34.41	26.51	158.1	0.852
253.	9.96	34.42			26.53	157.0	300.	9.12	34.44	26.68	142.6	0.928
279.	9.59	34.46			26.62	148.5	40C.	8.03	34.52	26-91	122.4	1.062
304.	9.03	34.44			26.7C	141.5	50C.	7.00	34.52	27.06	108.6	1.178
404.	8.01	34.52			26.92	121.8	600.	6.16	34.50	27.16	100.0	1.284
506.	6.94*	34.52			27.C7	107.9	700.	5.55	34.51	27.25	92.3	1.381
606.	6.12	34.50			27.16	99-6	-009	5.06	34.54	27.32	85.3	1.471
808.	5.03	34.54			27.33	84-8	TCCC.	4.21	34.56	27.44	75.1	1.633
1008.	4.18	34.56			27.44	74.7	1200.	3.53	34.58	27.52	67.1	1.777
1208.	3.51	34.58			27.52	66.8	1500.	2.81	34.62	27.62	57.6	1.966
1508.	2.80	34.62			27.62	57.4						

AFROM ST GATA \*INTERPOLATED GATA

Table 1.--Continued

		RIGINAL DA	ΤΔ		DERIVE	D DATA——	1		INTERPOLA	TED DATA-		
CRCMWELL CRY BULB		STATION WET BULB			7- CH LCNC		1964, 23 R. 14	CO G.C.T. WEATHER 02	A12* 8	CLOUD	TYPE 2.	COVER 6
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	TEMP.	SAL.	SICHA-T	CELTA	CYN. DPTH
C.	27.32	33.93			21.83	599.1	0.	27.32	33.93	21.83	599.1	0-000
9.	27.10	33.99			21.95	588.4	10.	27.10	33.99	21.95	588.1	0.060
30.△	26.28	34.17			22.34	551.5	20.	26.88	34.06	22.07	577.0	0.118
45.	23.94	34.50			23.30	460.3	3C .	26.28	34.17	22.34	551.5	0.175
71.	20.64	34.88			24.52	345.0	5C.	23.34	34.62	23.56	435.5	0.275
93.	16.33	34.54			25.34	267.5	75.	19.86	34.83	24.69	328.7	0.371
116.	13.22	34.37			25.88	216-1	100.	15.22	34.47	25.54	248.6	0.444
140.	11.72	34.28			26.1C	195.2	150.	11.56	34.38	26.21	185.1	0.553
163.	11.47	34.53			26.34	172.9	200.	10.68	34.64	26.58	151.5	0.638
176.	11.16	34.57			26.43	164.8	25C.	10.00	34.68	26.72	138.3	0.711
207.	10.56	34.66			26.61	148.5	30C.	9.46	34.65	26.79	133.1	0.779
232.	10.26	34.68			26.68	142-5	400.	8.51	34-62	26.91	122.3	0.908
254.	9.94	34.68			26.73	137.6	500.	7.56	34.53	26.99	116.3	1.029
277.	9.70	34.66			26.76	135.6	60C-	6.64	34.45	27.06	110.0	1.143
367.	8.78	34.62			26.88	125.6	70C.	6.05	34.51	27.18	99.2	1.249
459.	8.01	34.59			26.97	117.6	.009	5.50	34.54	27.28	90-6	1.344
549.	7.02	34.45			27.00	114.9	1000.	4.51	34.55	27.39	79.6	1.517
732.	5.90	34.54			27.22	95.3	1200-	3.75	34.57	27.49	70.5	1.669
915.	4.89	34.54			27.35	84.2						
1103.	4.10	34.56			27.45	74.6						
1394.	3.24	34.60			27.57	63.4						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

CRDMWELL CRY BULB		STATION WET BULB		9N LAT, 153 WINC SPEED			1964, 18 R. 13	CO G.C.T. WEATHER 02	V15.	9 CLCUC	TYPE 8.	COVER 4
DEPTH	TEMP.	SAL.	CXY.	P04-P	SICMA-T	CELTA	CEPTH	TEMP.	SAL.	S1GMA-T	CELTA	DYN. DPTH
C.	27.19	33.52	4.40	0.87	21.57	624.6	С.	27.19	33.52	21.57	624-6	0.000
10.,	27.36	33.78	4.28		21.71	£11.5	1C.	27.36	33.78	21.71	611.5	C.062
2C.	27.20	33.85			21.81	€C2.C	2C.	27.2C	33.85	21.81	602.C	0.123
30.△	27.08	33.88			21.87	596.6	30.	27.08	33.88	21.87	596.6	0.184
5C.	21.05	34.54	4.33	0.54	24.15	379.4	50.	21.05	34.54	24-15	379.4	C.282
76.	14.76	34.44	3.42	1.07	25.61	240.7	75.	14.95	34.45	25.58	243.7	C.361
101.	12.37	34.44	1.45	2.19	26.1C	194.4	100-	12.42	34-44	26.09	195.5	0.416
125.	11.59	34.70	0.27	2.59	26.45	161.7	150.	11.06	34.70	26.55	152.6	0.504
151.	11.04	34.7C	0.23	2.65	26.55	152.5	200.	10.37	34.71	26.68	141-3	0.578
175.	10.66	34.7C	0.20	2.61	26.62	146.5	25C.	9.93	34.7C	26.75	135.8	0-647
190.	10.47	34.71	0.17	2.79	26.66	142.9	300-	9.53	34.70	26.82	130.3	0.715
224.	10.17	34.71	C.20	2.26	26.72	138.6	400.	8.54	34.63	26.92	121.7	0.842
251.	9.92	34.7C	0.31	2.52	26.75	135.7	500.	7.57	34.59	27.04	111.7	G.960
276.	9.68	34.68	0.32	2.42	26.76	133.8	€CC.	6-64	34.55	27-14	102.8	1.068
300.	9.53	34.70	0.39	2.73	26.82	130.3	700.	5.91	34.54	27.22	94.9	1.168
400-	8.54	34.63	0.37	3 . C4	26.52	121.7	.008	5.33	34.55	27.30	87.9	1.260
502.	7.55	34.59	0.35	2.46	27.C4	111.5	1000.	4.41	34.57	27.42	76.8	1.427
603.	6.61	34.55	C-56	2.66	27.14	102.5	1200.	3.73	34.59	27.51	68.7	1.574
8C2.	5.32	34.55	0.62	2.57	27.3C	87.7						
1001.	4.41	34.57	C-94	2.76	27.42	76.8						
1200.	3.73	34.59	1.34	3.32	27.51	68.7						
1499.	2.99	34.62	1.65	2.56	27.60	59.6						

CRCMWELL ORY BULB		STATICN WET BULB		SN LAT, 154 WIND SPEED			5, 1964, C3 BAR. 12	CO C.C.T. WEATHER 02	¥15.	9 CLOUC	TYPE 8.	COVER 4
DEPTH.	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	1EMP.	SAL	SIGMA-T	CELTA	DYN.CPTH
C. <sup>△</sup>	27-48	33.66			21.58	623.5	С.	27.48	33.66	21.58	623.5	0.000
10-^	27.14	33.69	4.33	0.31	21.71	611.3	1C.	27.14	33.69	21.71	611.3	0.062
20.	26.92	33.75			21.62	600.6	20.	26.92	33.75	21.82	600.6	0.123
3C.^	26.74	33.77			21.50	594.1	3C •	26.74	33.77	21.90	594.1	0.183
51.	25.18	34.47	4.57	C.40	22.91	498.2	5C.	25.36	34.43	22.83	505.9	0.294
67.	19.00	34.56	4.09	1.12	24.7C	327.1	75.	17.17	34.57	25.17	283.3	0.394
77.	16.78	34.57	3.65	0.64	25.26	274.8	icc.	12.63	34.31	25.95	208.8	C-456
92.	13.68	34.37	2.27	1.E3	25-75	224.4	15C •	11.31	34.65	26.46	161.1	0.549
102.	12.42	34.3C	2.32	1.78	25-98	205.6	200.	10.62	34.71	26.63	146.1	0.626
117.	11.32	34.28	2.56	1.79	26.18	187.6	250.	9.81	34.65	26.73	137.2	0.698
127.	11.02	34.30	2.24	2.16	26.25	181.1	30C.	9.09	34.62	26.82	129.3	0.765
153.	11.38	34.70	C.19	2.43	26.49	158.6	40C .	8.02	34.56	26.95	118.6	0.890
192.	10.76	34.71	0.22	2.67	26.61	147.9	500.	6.83	34.52	27.09	106.1	1.003
253.	9.76	34.65	0.25	2.72	26.74	136.8	60C.	6.03	34.52	27.19	96.8	1.106
278.	9.40	34.62	C.31	2.34	26-78	133.7	7CC.	5.38	34.53	27.28	88.7	1.200
304.	9.04	34.62	C-28	2.47	26.83	128.4	.038	4.85	34.55	27.36	81.8	1.286
405.	7.97	34.56	0.34	2.64	26.95	118.3	1CCC.	4.11	34.57	27.45	73.1	1.442
506.	6.76	34.52	0.39	2.87	27.CS	105.4	1200.	3.42	34.59	27.54	64.8	1.582
606.	5.99	34.52	0.47	3.01	27.20	96.3						
808.	4.81	34.55	C-77	2.86	27.36	81.3						
1009.	4.08	34.57	1.07	3.06	27.46	72.8						
1174.	3.45	34.59	1.39	3.15	27.54	65.1						
1421.	2.68	34.62	1.70	2.65	27.61	57.8						

Table 1.--Continued

	c	RIGINAL DA	TA	+	DERIVE	D DATA	+		INTERPOL	ATED DATA-		
CROMWELL CRY BULB		STATION WEI BUL8		3N LAI, 154 WINC SPEED			1964, 12 R. 13	CO G.C.T. WEATHER 02	V15.	8 CLCU	TYPE ,	COVER
DEPTH.	TE™P.	SAL.	CXY.	PC4-P	SIGMA-I	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH
0.0	27.15	33.59			21.63	618.4	0.	27.15	33.59	21.63	618.4	0.000
1C.,	27.15	33.59	4-21	0.45	21.63	618.8	10.	27-15	33.59	21.63	618.8	0.062
30.△	26.30	34.03			22.23	562.2	2C-	26.86	33.77	21.86	597.1	0.124
52.	24.14	34.50	4.63	0.72	23.24	466.2	30.	26.30	34.03	22.23	562.2	0.182
68.	22.38	34.66	4.92	0.36	23.87	406.6	50.	24.37	34.46	23.15	475.3	0.286
78.	21.68	34.72	4.73	0.44	24-11	383.9	75.	21.88	34.70	24.05	390.4	0.395
92.	20.42	34.83	4.34	C.47	24.54	343.7	100.	19.62	34.81	24.74	325.1	0.486
102.	19.39	34.8C	4.21	0-63	24.79	320.4	150.	12.70	34.31	25.93	211.7	0.621
117.	16.74	34.54	3.45	1.76	25.24	277.4	ZCC.	11.09	34.63	26.49	159.4	0.714
127.	15.46	34.44	3.44	1 - 35	25.46	256.9	25C.	10.55	34.68	26.62	148.1	0.792
154.	12.31	34.30	2-06	2.39	26.C1	204.9	300-	9.88	34.65	26.72	139.6	0.864
193.	11.19	34.61	C.51	2.69	26.46	162.8	400.	8.65	34.59	26.88	126-1	0.998
254.	10.52	34.67	C.19	2.59	26.62	148.1	50C.	7.57	34.54	27.CC	115.2	1.120
280.	10.15	34.66	C-14	2.75	26.68	143.1	éOC.	6.69	34.52	27.11	105.7	1.232
305.	9.81	34.65	0.23	2.74	26.73	138.7	700.	5.97	34.52	27.20	97.0	1.334
405.	8.59	34.59	C - 43	3.02	26.88	125.5	80C.	5.38	34.54	27.29	89.4	1.429
506.	7.51	34.54	0.49	3.25	27-C1	114.7	1000.	4.44	34.56	27.41	77.9	1.598
607.	6.63	34.52	0.47	3.16	27.11	105-1	1200.	3.79	34.58	27.50	70.2	1.748
808.	5.34	34.54	0.65	2.68	27.29	88.8	1500.	3.00	34.60	27.59	61.3	1.948
1009.	4.40	34.56	1.06	2.88	27.42	77.5						
1210.	3.7€	34.58	1.40		27.5C	69.9						
151C.	2.98	34.60	1.65	2.98	27.59	61.0						

CRCFWELL		STATION		ON LAT. 154			. 1964, ZC					
CRY BULB	26.7	WET BULE	23.3	WINC SPEEC	14, CIR.	Cé 8	AR. 15	WEATHER 02	¥15.	e crent	TYPE 1,	COVER 1
OEPTH	TEMP.	SAL	CXY.	P04-P	SIGMA-I	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH
C.	26.RO	33.84	4.59	0.28	21.93	589.7	0.	26.80	33.84	21.93	589.7	0.000
1C- ^	26-72	33.83	4.71	0.41	21.95	588.4	10.	26.72	33.83	21.95	588.4	0.059
3C.	26.64	33.84			21.58	586.1	2C.	26.67	33.83	21.97	587.1	0-119
5C. <sup>△</sup>	26.60	33.85			22.CC	584.9	30-	26.64	33.84	21.98	586.1	0.178
77.	23.98	34.48	4.27	0.73	23.28	464-1	5C.	26-60	33.85	22.00	584.9	0.296
102.	21.43	34.74	4.93	0.39	24.20	376.7	75.	24.23	34.43	23.16	474.8	0.429
127.	20.2R	35.C2	4.58	C - 44	24.72	327.1	100.	21.61	34.72	24.14	382.5	0.537
152.	16.61	34.60	5.04	0.79	25.32	271.2	150.	16.94	34.64	25.27	275.3	0.703
177.	13.60	34.34	2.73	1.69	25.78	227.3	200.	11.95	34.36	26.12	194.7	0.821
192.	12.37	34.32	2.19	2.07	26.C1	205.5	250.	10.85	34.58	26.49	160.6	0.911
226.	11-17	34.54	0.79	2.57	26.41	168.3	300.	10-61	34.68	26.62	149.8	0.989
253.	10.84	34.58	0.68	2.75	26.5C	160.2	400.	8.85	34.57	26.82	131.4	1.131
279.	10.95	34.68	C.32	2.70	26.55	155.4	SCC.	7.85	34-56	26.97	118.1	1.257
304.	10.53	34.68	0.23	2.25	26.63	148.7	€00.	7.00	34.53	27.07	109.3	1.372
404.	8.79	34.56	0.42	2.52	26.83	130.8	700.	6.21	34.52	27.17	100.3	1.478
506.	7.80*	34.56	C.38	3.00	26.98	117.5	ECC.	5.53	34-53	27.26	92.0	1.575
606.	6.95	34.53	0.63	3.00	27.CE	108.9	1000-	4.61	34.55	27.38	80.8	1.750
808.	5.48	34.53	0.66	3.09	27-27	91.4	1200.	3.90	34.57	27.48	72.3	1.905
1008.	4.58	34.55	0.82	2.75	27.39	8C.5	1500.	3.04	34.60	27.58	61.8	2.109
1209.	3.87	34.57	1.21	3.39	27.48	71.9						
1509.	3.02	34.6C	1.62	2.83	27.59	61.5						

CROPWELL CRY BULR		STATICK WET BULB		ON LAT, 153 WIND SPEED			1964, 05 • 13	CO G.C.T. WEATHER 03	VIS. 8	CLOUG	TYPE 8,	COVER 4
CEPTH	TEPP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGHA-T	CELTA	DYN.OPTH.
С.	26.37	34.68	4.52		22.7C	516.3	0.	26.37	34.68	22.70	516.3	0.000
9.,	26.32	34.68	4.62		22.71	515.2	10.	26.31	34.68	22.72	515.0	0.052
30.0	26.20	34.68			22.75	512.4	2C.	26.26	34.68	22.73	513.8	0.104
9.∆ 30.∆ 50.	26.06	34.68			22.79	509.0	30.	26.20	34.68	22.75	512-4	0.155
70.	25.12	34.68	4.74	0.39	23.08	482.1	50.	26.06	34.68	22.79	509.0	0.258
92.	22.95	34.77	4.94	0.43	23.79	415.1	75.	24.64	34.69	23.24	467.3	0.381
116.	21.65	34.92	4.80	0.39	24.27	370.1	100.	22.45	34.82	23.97	398.4	0.490
139.	20.41	35.C4	4.48		24.7C	330.0	150.	19.85	35.03	24.84	317.3	0.671
162.	19.09	34.95	4.29	0.53	24.98	304.3	200 .	15.69	34.54	25.49	256.5	0.815
177.	17.66	34.76	4.C4	1.36	25.19	284.4	25C.	11.98	34.25	26.03	205.2	0.932
208.	15.03	34.48	3.75	0.70	25.58	247.2	300.	9.72	34.21	26.40	169.8	1.026
232.	12.98	34.29	3.61	1.72	25.87	220.3	40G-	7.88	34.35	26.80	132.7	1.179
256.	11.70	34.24	3.54	2.96	26.08	200.6	500 -	6.87	34.43	27.01	113.1	1.303
279.	10.46	34.20	3.23	1.58	26.27	182.2	60C.	6.12	34.47	27.14	101.6	1.411
37C-	8.32	34.31	1.39	3.16	26.7C	141.4	70C-	5.51	34.49	27.23	93.6	1.510
463.	7.20	34.41	0.68	3.22	26.95	119.1	800.	5.05	34.51	27.30	87.4	1.601
554.	6.45	34.46	C.60	2.51	27.09	106.3	1000-	4.36	34.55	27.41	77.6	1.768
74C.	5.30	34.49	C.70	3.22	27.26	91.2	1200.	3.75	34.58	27.50	69.9	1.918
925.	4.62	34.54	0.85	3.03	27.38	80.9						
111C.	4.00	34.56	1.13	- 7 - 7	27.46	73.4						
1394.	3.25	34.59	1.46	3.10	27.56	64.3						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.10

AFROM BT DATA \*INTERPOLATED DATA

Table 1.--Continued

	0	RIGINAL DA	TA		DERIVE	D DATA-	+		INTERPOLA	TED DATA—		
CRCPWELL ORY BULB		STATICA WET BULB		IN LAT: 153 WIND SPEEC	3-58W LCNG		1964, 15 R. 14	CO G.C.T. WEATHER 50	VIS. 6	CLOUO	TYPE ,	COVER
OEPTH	TEMP.	SAL	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
C.	26.10	34.84	4.06	0.35	22.90	496.7	С.	26-1C	34.84	22.90	496.7	0.000
10. A	26.09	34.84	4.30	0.37	22.91	496.8	1C.	26.09	34.84	22.91	496.8	0.050
30. A	26.00	34.84			22.93	494.5	20.	26.06	34.84	22.91	496.4	0.100
5C. A	25.76	34.85			23.02	487.9	3C .	26.0C	34.84	22.93	494.9	0.150
76.	23.76	34.91		0.35	23.66	426.9	5C.	25.76	34.85	23.02	487.9	C-249
101.	22.74	35.C6	4-20	0.23	24.07	388.7	75.	23.85	34.91	23.64	429.5	0.365
126.	21.73	35.08		0.52	24.37	361.0	100.	22.77	35.05	24.06	390.0	0.468
151.	20.53	35.12	4.01	0.30	24.73	327.7	150.	20.58	35.12	24.72	329.1	0.649
176.	18.89	34.96	4.74	C.39	25.04	299.1	200.	17.15	34.75	25.31	273.6	C.801
190.	17.90	34.85		C-48	25.2C	283.9	25C.	12.24	34.21	25.95	212.6	0.923
224.	15.06	34.50	4.28	0.63	25.59	246.9	300.	9.81	34.15	26.34	175.8	1.021
251.	12.14	34.20	4.40	1.08	25.96	211.5	400 -	7.40	34.16	26.72	139.4	1.100
276.	10.73	34.12	4.08	1.55	26.16	192.6	5CC.	6.8C	34.34	26.94	119.5	1.311
302.	9.75	34.15	3.48	1.60	26.35	174.5	60C.	5.96	34.42	27.12	103.3	1.424
402.	7.37	34-16	2.01	2.61	26.73	139.C	700.	5.33	34.45	27.22	94.1	1.523
502.	6.80	34-34	C.86	3.10	26.55	119.2	ECC.	4.86	34.46	27.28	88.5	1.616
602.	5.94	34.42	C.74	3.C8	27.12	103.C	lccc.	4.23	34.52	27.40	78.2	1.784
8C3.	4.85	34.46	0.83		27.29	88.4	1200.	3.63	34.55	27.49	70.4	1.935
1002.	4.22	34.52	1.09	2.89	27.4C	78.1						
1202.	3.62	34.55	1.25	2.55	27.49	70.3						
1486.	2.88	34.6C	1.67	2.63	27.6C	59.7						

CRCPWELL ORY SULB		STATICA WET BULB		ON LAT, 153 WINC SPEEC			7, 1964, 24 BAR. 15	CO G.C.T. WEATHER OI	V15.	8 CLCUC	1 YPE 8,	COVER 4
OEPTH	TEMP.	5AL.	CXY.	PC4-P	51GMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.CPTH.
0-	25.64	34.83	4.68	C - 25	23.04	483.8	C.	25-64	34.83	23.04	483.8	0.00
1C- ^	25.61	34.82	4.63	0.27	23.C4	484 .C	10.	25-61	34.82	23.04	484.0	0.049
30-A	25.54	34.82			23.C6	482.7	20.	25.58	34.82	23.05	483.5	0.097
5 C + A	25.48	34.81			23.07	482.5	3C .	25.54	34.82	23.06	482.7	C-146
75.	25.00	34.81			23.22	469.5	5C •	25.48	34.81	23.07	482.5	C.243
102.	21.89	34.86	4.76	0.90	24.16	380.3	75.	25.0C	34.81	23.22	469.5	G.363
126.	20.76	34.98	4.36	C-29	24.56	342.8	100.	22.13	34.85	24.09	387.1	0.471
152.	19.37	34.90	4.27	C-40	24.87	314.4	15C.	19-49	34.91	24.85	316.5	0.648
178.	17.30	34.70	3.99	0.94	25-23	28C-4	200.	15.75	34.48	25.43	262.1	0.794
192.	16.39	34.56	3.79		25.34	270.4	25C.	11.81	34.17	26.00	207.9	0.913
226.	13.57	34.28	3.08		25.74	232.4	300.	9.80	34.18	26.36	173.2	1.009
252.	11.68	34.16	3.72	1-43	26-02	206.0	4CC -	7.5C	34.14	26.70	142.1	1.168
278.	10.32	34.16	3.57	1.74	26.26	182.7	5CC.	5.71	34.18	26.96	116.8	1.299
303.	9.75	34.18	2.96		26.37	172.3	€00.	5.31	34.36	27.15	99.3	1.408
404.	7.41	34.14	2.29	2.52	26.71	141.1	700.	4.99	34.45	27.27	89.5	1.503
504.	5.66	34.18	1.09	3.Cl	26.97	115.9	€CC.	4.67	34.49	27.33	84.0	1.591
605.	5.31	34.37	C.66	3.26	27.16	98.6	1000.	4.07	34.51	27.41	77.0	1.754
808.	4.65	34.49	0.80	3.17	27.33	83.7	1200.	3.59	34.54	27.48	70.7	1.903
1008.	4.05	34.51	0.99	3.33	27.41	76.8	1500.	2.82	34.58	27.59	60.6	2.103
1208.	3.57	34.54	1.24	3.19	27.45	70.5						
1508.	2.80	34.58	1.54	2.61	27.59	60.3						

CRCMWELL CRY BULB		STATICN WET BLLE		2N LAT, 154 WING SPEEC			1964, C9	CO G.C.T. WEATHER OZ	V15.	7 CLCUC	TYPE .	COVER
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.
c.	25.47	34.57	4.79	0.25	22.89	497.5	c.	25.47	34.57	22.89	497.5	0.000
11.	25.48	34.97	4.90	0.36	23.19	469.4	10.	25.48	34.94	23.17	471.2	0.049
3C. ^	25.42	35.C3			23.26	464.1	20.	25.47	35.05	23.25	463.9	0.096
51.	25.04	35.C8	4.79	1.13	23.41	450.2	30.	25.42	35.03	23.26	464.1	0.143
77.	23.50	35.C8	5.21	0.55	23.87	407.4	50.	25.07	35.08	23.40	451.2	C+235
102.	22.55	35.16	5.08	0.14	24.2C	376.4	75.	23.63	35.C8	23.83	410.9	0.343
127.	21.34	35.16	4.74	0.60	24.54	345.0	100.	22.62	35.15	24.18	378.7	0.443
153.	20.32	35.11	4.63	0.58	24.78	323.1	150.	2C.45	35.12	24.73	325-6	0.620
177.	18.73	34.94	4.49	0.52	25.Cé	296.7	200.	17.71	34.82	25.22	282.2	C-774
193.	18.C8	34.86	4.52	C-44	25.16	287.5	250.	14.18	34.4C	25.71	236.3	0.904
226.	16.03	34.62	4.62	0 - 46	25.47	259.1	300.	11.25	34.16	26.09	199.5	1.014
253.	13.96	34.38	4.66	0.89	25.74	233.7	40C -	8.28	34.C9	26.54	157.3	1.194
279.	12.58	34.26	4.76	0.55	25.92	216.0	500.	6.23	34.1C	26.83	129.3	1.339
304.	11.00	34.14	4.13	1.32	26.13	196.5	écc.	5.28	34.21	27.04	110.0	1.460
405.	8.22	34.10	3.15	1.84	26.56	156.0	700.	4.86	34.33	27.19	96.8	1.564
506.	6.13	34.10	1.86	3.37	26.85	127.9	.00s	4.64	34.43	27.29	87.7	1.657
606.	5.25	34.22	C-96	3.55	27.05	109.0	iccc.	4.07	34.5C	27.4C	77.7	1.825
808.	4.63	34.44	0.88	3.63	27.3C	87.2	1200.	3.52	34.54	27.49	69.5	1.974
1009.	4.04	34.50	1-14		27.41	77.4						
1187.	3.54	34.54	1.45	3.19	27.49	69.9						
1425.	2.99	34.58	1.50	2.59	27.57	62.1						

Table 1.--Continued

	0	RIGINAL DA	TA	-	DERIVE	D DATA	+		INTERPOLA	TED DATA-		
CROPHELL CRY 8UL8		STATICA WET BULB		ON LAT. 153- WINO SPEED			1964, 17 R. 17	CO G.C.T. WEATHER OI	VI5. 6	CFCNO	TYPE 8,	COVER 6
OEPTH	TEMP.	SAL.	CXY.	P04-P	S1GMA-T	OELTA	CEPTH	TEMP.	5AL.	5 EGMA-T	CELTA	OYN.OPTH
C.	25.40	34.96	4.73	C . 25	23.21	467.4	C.	25.40	34.96	23.21	467.4	0.000
11.	25.43	34.96	4.86	1.55	23.20	468.7	10.	25.43	34.96	23.20	468.6	0.047
3C.	25.43	34.97			23.21	468.7	20.	25.43	34.96	23.20	468.8	0.094
50 • △	25.42	34.97			23.21	469.2	30.	25.43	34.97	23.21	468.7	0.142
75.	24.8C	34.99			23.42	450.7	50.	25.42	34.97	23.21	469.2	0.236
97.	23.20	35.08	4.95	C.30	23.9€	399.8	75.	24.80	34.99	23.42	450.7	0.352
121.	22.41	35.15	4.84		24.24	374.0	100.	23.07	35.09	24.00	395.5	0.459
147.	21.79	35.17	4.74	0.31	24.43	356.9	150.	21.69	35.17	24.46	354.1	0.647
172.	20.79	35.16	4.58	0.36	24.69	332.3	200.	19.27	35.02	24.98	305.1	0.814
186.	20.11	35.11	4.51		24.84	319.0	250.	15.52	34.54	25.52	255.0	0.955
219.	17.95	34.85	4.48	0.73	25.19	286.0	300.	12.51	34.26	25.94	215.1	1.073
244.	16.CO	34.58	4.13	1.05	25.44	261.9	400.	9.39	34.13	26.39	172.0	1.269
269.	14.13	34.42	4.45	1.09	25-73	234.6	500.	6.97	34.11	26.74	138.5	1.425
294.	12.76	34.28	4.21	1.86	25.9C	218.4	600.	5.79	34.24	27.00	114.0	1.553
391.	9.66	34.14	3.85	2.46	26-36	175.5	700.	5.17	34.33	27.15	101.0	1.661
49C.	7.14	34.1C	2.32	2.57	26.71	141.5	.00°	4.80	34.39	27.24	92.8	1.759
586.	5.90	34-23	C.94	3.15	26.98	116.3	1000.	4.01	34.49	27.40	78.0	1.932
783.	4.88	34.38	0.80	3-22	27.22	94.5	1200.	3.44	34.54	27.50	68.9	2.081
977.	4.08	34.48	1.12	3.15	27.39	79.1						
1172.	3.54	34.52	1.34	3.10	27.47	71.3						
1467.	2.93	34.58	1.48		27.58	61.6						

CRCMWELL		STATICA		ON LAT, 153			1964, C2					
CRY BULB	24.9	WET BULE	22.1	WINC SPEEC	17, CIR.	C9 BA	R. 18	WEATHER 02	VI5.	8 CFOOC	TYPE 8,	COVER 7
DEPTH	TEFP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.
С.	25.63	34.93	5.02	0.14	23.12	476.3	С.	25.63	34.93	23.12	476.3	0.000
1C.	25.63	34.93	5.CG	1.05	23.12	476.7	10.	25.63	34.93	23.12	476.7	0.048
20.	25.63	34.98			23.15	473.5	20.	25.63	34.98	23.15	473.5	0.096
50.	25-20	35.22	5.08	0.14	23.47	444.8	30.	25.64	35.07	23.22	467.T	0.143
76.	23.18	35.20	5.C9	0.12	24.C5	389.8	5C.	25.20	35.22	23.47	444.8	0.235
101.	22.11	35.22	4.91	C.18	24.37	360.1	75.	23.26	35.20	24.03	391.9	0.341
127.	20.60	35.13	4.75	0 - 34	24.72	327.9	100.	22.15	35.22	24.36	361.1	0.435
152.	19.76	35.07	4.69	C.36	24.90	311.8	15C •	19.83	35.08	24.88	313.0	0.605
177.	18.21	34.90	4.57	0.44	25.16	287.2	200.	16.81	34.71	25.36	268.9	0.752
192.	17.32	34.78	4.54	0.68	25.29	275.5	250 .	14.65	34.48	25.67	240.2	0.880
226.	15.37	34.54	4.49		25.55	250.6	300.	12.27	34.27	25.99	210.3	0.994
252.	14.59	34.48	4.60	0.76	25.68	239.3	400 •	9.27	34.10	26.39	171.9	1.187
278.	12.96	34.32	4.69	0.52	25.89	218.9	500.	6.67	34.04	26.73	139.5	1.344
304.	12.18	34.26	4.69	1.08	26.00	209.1	600.	5.46	34.11	26.94	119.5	1.475
404.	9.15	34.10	5.11	1.57	26.41	170.4	700.	4.81	34.23	27.11	103.9	1.588
506.	6.54	34.04	2.53	2.55	26.75	137.9	E0C.	4.41	34.34	27.24	91.6	1.686
605.	5.43	34.12	1.31	2.97	26.95	118.6	1COC.	3.90	34.48	27.40	77.4	1.857
807.	4.39	34.35	0.82		27.25	90.9	1200.	3.42	34.54	27.50	68.7	2.005
1008.	3.88	34.48	1.18	3.Cl	27.41	77.C						
1208.	3.40	34.54	1.45	3.18	27.5C	68.4						
148C.	2.84	34.58	1.56	3.06	27.59	60.6						

CRCMWELL ORY BUL8		STATICN WET BULB		7N LAT, 151- WINO SPEEC			9, 1964, 19 8AR. 2C	CO G.C.T. WEATHER 03	V15.	7 CLOUO	TYPE 6.	COVER 5
OEPIH	TEMP.	5AL.	CXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
C.	24.95	35.16			23.5C	439.8		24.95	35.16	23.50	439.8	0.000
10.	24.92	35.17			23.51	438.6	1C-	24.92	35.17	23.51	438.6	0.044
30.△	24.86	35.18			23.54	437.0	20.	24.89	35.18	23.53	437.7	0.088
50.△	24.82	35.18			23.55	436.6	3C.	24.86	35.18	23.54	437.0	0.132
77.	23.31	35.16			23.99	396.3	50.	24.82	35.18	23.55	436.6	0.220
10C.	22.16	35.22			24.36	361.4	75.	23.45	35.16	23.95	400.1	0.326
125.	21.12	35.28			24.69	330.5	100.	22.16	35.22	24.36	361.4	0.422
151.	20.68	35.26			24.80	321.5	150.	20.70	35.26	24.80	321.6	0.594
177.	19.68	35.C8			24.93	310.0	200.	18.16	34.89	25.17	287.6	0.747
191.	18.72	34.96			25.08	295.5	250.	15.22	34.53	25.58	249.1	0.883
225.	16.68	34.70			25.38	267.8	300.	12.29	34.26	25.98	210.9	0.999
251.	15.16	34.52			25.59	248.3	4CC.	9.40	34.08	26.36	175.8	1.194
277.	13.34	34.34			25.83	224.9	5GC-	6.99	34.04	26.69	144.1	1.355
301.	12.25	34.26			25.99	210.3	600.	5.40	34.12	26.95	118.4	1-488
402.	9.36	34.08			26.36	175.2	700.	4.76	34.26	27.14	101.1	1.599
502.	6.95	34.04			26.69	143.5	. 208	4.54	34.40	27.27	89.2	1.695
602.	5.38	34.12			26.96	118.0	1000.	3.97	34.50	27.41	76-6	1.862
802.	4.54	34.40			27.27	89.0	1200.	3.51	34.54	27.49	69.7	2.011
1001.	3.97	34.50			27.41	76.5						
120C.	3.51	34.54			27.49	69.7						
1498.	2-87	34.57			27.58	61.8						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.12

Table 1. -- Continued

_	C	RIGINAL DA	ΤΔ		DERIVE	D DATA	+	····	INTERPOLAT	TED DATA-		
CROMWELL DRY BUL8		STATION WET BULB		ON LAT. 151	L- IN LONG.		1964, 04 R. 17	GO G.C.T. WEATHER 02	VIS. 8	CLOUG	TYPE 6,	COVER 5
CEPTH	TEMP.	SAL.	CXY.	PC4-P	51GMA-T	CELTA	DEPTH	TEMP.	SAL.	S1GMA-T	DELTA	DYN. DPTH.
0.	25.08	35.07			23.39	450.1	0.	25.08	35.07	23.39	450.1	0.000
10.	25.06	35.08			23.40	449.2	1 C -	25.06	35.C8	23.40	449.2	0.045
30.△	25.02	35.08			23.42	448.6	20.	25.04	35.08	23.41	448.9	0.091
50.△	24.9R	35.C8			23.43	448.5	30.	25.02	35.08	23.42	448.6	0.136
77.	22.63	35.14			24.17	379.1	5C .	24.98	35.08	23.43	448.5	0.226
101.	21.61	35.20			24.5C	348.2	75.	22-83	35.13	24-11	384.8	0.331
126.	21.13	35.22			24.65	335.1	100.	21.64	35.20	24.49	349.1	0.424
151.	20.62	35.23			24.79	322.1	150.	20.64	35.23	24.79	322.6	0.593
177.	19.67	35.10			24.94	308.3	20C.	18.51	34.94	25.12	292.0	0.748
192.	18.90	35.CC			25.07	297.0	250.	14.52	34.44	25.66	240-6	0.882
226.	16.88	34.72			25.35	270.9	300.	11-86	34.18	26.00	208.8	0.995
252.	14.33	34.42			25.69	238.3	400.	8.73	34.04	26.43	168.1	1.185
278.	12.96	34.28			25.86	221.8	5CC.	6.31	34.04	26.77	134.9	1.338
303.	11.72	34.17			26.C2	207.2	600.	5.09	34.14	27.01	112.8	1.463
404.	8.64	34.04			26.44	166.8	700.	4.61	34.29	27.18	96.7	1.569
506.	6.19	34.04			26.79	133.2	600.	4.43	34.43	27.31	85.4	1.661
606.	5.05	34.15			27.C2	111.7	1 COC.	3.94	34.51	27.42	75.4	1.824
807.	4.43	34.44			27.32	84.7	1200.	3.40	34.54	27.50	68.4	1.970
1008.	3.92	34.51			27.43	75.3	1500.	2.78	34.58	27.59	60.0	2.165
1208.	3.38	34.54			27.5C	68.2						
1508.	2.76	34.58			27.59	59.9						

CRCMWELL ORY 8UL8		WET BULB		ON LAT, 150 WIND SPEED			1964, 14	CO G.C.T. WEATHER 02	V15.	GLOUD	TYPE ,	COVER
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGNA-T	CELTA	OYN-OPTH.
0.	25.71	34.85			23.03	484.4	0.	25.71	34.85	23.03	484.4	0.000
10.,	25.69	34.86			23.05	483.5	10.	25.69	34.86	23.05	483.5	0.049
3C 🚣	25.68	34.86			23.05	484.0	20.	25.68	34.86	23.05	483.6	0.097
50.△	25.66	34.86			23.C5	484.2	3C.	25-68	34.86	23.05	484.0	0.146
75.	23.26	34.83			23.75	418-6	50.	25.66	34.86	23.05	484.2	0.244
101.	22.14	34.89			24.12	384.7	75.	23.26	34.83	23.75	418.6	0.357
126.	21.13	35.CC			24.48	351.C	100-	22.17	34.89	24.10	385.8	0.459
152.	20-09	35.07		1	24.81	320.1	150.	20.19	35.07	24.79	322.4	0.637
176.	18.3C	34.83			25.09	294.3	200.	16.29	34.55	25.36	269.1	0.786
192.	17.02	34.64			25.25	278.8	250.	12.80	34.23	25.86	221.3	0.910
226.	14.11	34.33			25-67	239.6	300.	10.48	34.16	26.23	186.0	1.013
252.	12.70	34.23			25.66	219.8	400.	7.81	34-13	26.64	147.7	1.181
277.	11.22	34.17			26.11	197.6	500.	6.88	34.31	26.91	122.5	1.317
303.	10.41	34.16			26.25	184.8	60C.	6-21	34.38	27.06	109-7	1.435
404.	7-73	34-13			26.65	146.5	700.	5.57	34.42	27.17	99.2	1.540
505.	6.86	34.32			26.92	121.6	eoc.	5.02	34.46	27.27	90.6	1.636
605.	6.18	34.38			27.06	109.2	1000.	4.30	34.51	27.39	80.0	1.809
806.	4.99	34.46			27.27	90.2	1200.	3.71	34.55	27.48	71.5	1.962
1008.	4.28	34.51			27.39	79.6	1500.	2.98	34.58	27.57	62.4	2.166
1208.	3.69	34.55			27.48	71.2						
1508.	2.96	34.58			27.58	62.3						

CROMWELL ORY BULB		STATION WET BULB			C-59H LCNG,			CO G.C.T. WEATHER OI	V15.	8 <b>CLOU</b> C	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	S1GMA-I	DELTA	DYN-CPTH.
1.	25.83	34.76			22.93	494.5	0.	25.83	34.76	22.93	494.4	C.000
11.,	25.88	34.77			22.92	495.6	10-	25.88	34.77	22.92	495.6	0.050
30. <sup>△</sup> 50. <sup>△</sup>	25.88	34.78			22.93	495.7	20.	25.89	34.78	22.92	495.8	0-100
5C. <sup>△</sup>	25.88	34.78			22.93	496.5	30.	25.88	34.78	22.93	495.7	0.150
75.△	25.87	34.79			22.94	496.5	50.	25.88	34.78	22.93	496.5	0.250
99.	23.08	35.01			23.94	401-6	75.	25.87	34.79	22.94	496.5	0.375
124.	22.40	35.C8			24.19	378.9	100.	23.03	35.01	23.96	400.1	0.488
149.	21.34	35.10			24.50	350.1	150.	21.31	35-10	24.51	349.3	0.676
173.	20.36	35.06			24.73	328.5	200.	18.51	34.85	25.05	298.5	0.840
186.	19.41	34.96			24.90	312.3	250.	13.89	34.32	25.71	236.4	0.975
219.	17.10	34.68			25.26	278.6	300.	10.63	34.14	26.19	190.3	1.082
244.	14.41	34.37			25.63	243.3	40C.	7.88	34.19	26.68	144.1	1.251
27C.	12.39	34.21			25.92	215.9	500.	6.60	34.23	26.89	124.1	1.386
294.	10.90	34.14			26.14	194.5	600.	6.23	34.37	27.05	110.5	1.505
391.	8.06	34.19			26.65	146.7	700.	5.71	34.42	27.15	101.0	1.612
489.	6.66	34.22			26.67	126.0	.008	5.18	34.45	27.24	93.7	1.710
586.	6.30	34.36			27.03	112.1	1000.	4.41	34.52	27.39	80.2	1.886
789.	5.23	34.44			27.23	94.5	1200.	3.75	34.56	27.48	71.2	2.039
976.	4.50	34.52			27.37	81.3						
1171.	3.83	34.54			27.46	73.3						
1466.	3.08	34.58			27.56	63.4						

Table 1. -- Continued

	C	RIGINAL DA	TA	+	DERIVE	DATA			INTERPOL	ATED DATA-		
CRGPWELL GRY BULB		STATICH WET CULC		IN LAT, 151- WING SPEED			1964, 09 R. 16	CO G.C.T. WEATHER 02	V15.	6 CLOUC	TYPE .	COVER
OEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
c.	25.88	34.62			22.81	506.C	С.	25.88	34.62	22.81	506.0	C.CC0
10.	25.86	34.61			22.8C	506.5	1C.	25.86	34.61	22.80	506.5	0.051
10. 30. 50.	25.82	34.60			22.81	506.8	20.	25.84	34.60	22.01	506.7	0.102
50.0	25.80	34.60			22.82	507.0	3C.	25.82	34.6C	22.81	506.8	0.153
73.	24.10	34.51			23.26	465.2	5C.	25.80	34.60	22.82	507.0	0.255
94.	22.38	34.63			23.85	409.7	75.	23.92	34.52	23.32	459.7	0.377
118.	21.47	34.81			24.24	373.3	100.	22.08	34.67	23.97	398.7	0.485
143.	21.06	35.01			24.5C	349.1	150.	20.63	34.98	24.60	340.5	0.671
167.	19.29	34.84			24.84	317.3	200.	16.32	34.54	25.34	270.2	0.825
180.	18.19	34.75			25.05	297.7	250.	12.00	34.23	26.01	206.6	0.945
212.	15.16	34.42			25.51	254.5	300.	10.01	34.28	26-41	168.7	1.040
237.	12.87	34.27			25.87	219.0	400-	7.75	34.23	26.73	139.1	1.195
262.	11.36	34.22			26.12	196.C	50C •	6.61	34.31	26.95	118.7	1.326
285.	10-48	34.28			26.33	176.8	€00.	6.20	34.42	27.09	106.6	1.439
379.	0.14	34.23			26.67	144.7	700-	5.70	34.45	27.18	98.4	1.543
475.	6.76	34.28			26.91	122.7	ecc.	5.20	34.47	27.26	91.9	1.639
569.	6.36	34.40			27.05	109.7	1000.	4.36	34.52	27.39	80.1	1.813
761.	5.3R	34.46			27.22	94.7	1200.	3.67	34.55	27.48	71.1	1.966
953.	4.54	34.51			27.3é	82-4						
1146.	3.84	34.53			27.45	74.0						
1441.	3.04	34.58			27.57	62.8						

CRCMWELL DRY 8UL8		STATICN WET PULB		ON LAT, 151- WIND SPEED			1964, 18 . 15	CO G.C.T. WEATHER O1	VIS.	8 CLOUO	TYPE 8.	COVER 5
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	25.99	34.62			22.77	509.3	C.	25.99	34.62	22.77	509.3	0.000
10.	26.03	34.62			22.76	510.8	10.	26.03	34.62	22.76	510.8	0.051
30.△	26.03	34.62			22.7€	511.6	20.	26.04	34.62	22.76	511.4	0-103
50.△	26.03	34-62			22.76	512.4	3C.	26.03	34.62	22.76	511.6	0.154
75.6	25.00	34.62			23.08	483.1	50.	26.03	34.62	22.76	512.4	0.258
101.	22.52	34.60			23.75	415.9	75.	25.00	34.62	23.00	483.1	0.383
125.	20.27	34.78			24.54	344.7	100.	22.63	34-60	23.76	418.9	0.497
149.	17.30	34.62			25.17	285.3	15C.	17.20	34.61	25.19	283.5	0.674
176.	14.72	34.40			25.59	245.6	200.	12.73	34.30	25.93	213.6	0.799
191.	13.35	34.30			25.8C	225.7	250.	10.10	34.31	26.42	167.4	0.895
224.	11.40	34.36			26.22	185.6	3CC.	9.51	34.44	26.62	149.1	0.975
250.	10-10	34.31			26.42	167.4	40C.	8.03	34.46	26.87	126.5	1.114
276.	9.95	34.44			26.54	155.9	500.	6.96	34.47	27.03	111.8	1.234
30C.	9.51	34.44			26.62	149.1	60C.	6.28	34.46	27.11	104.5	1.343
4C1.	8.02	34.46			26.87	126.3	700.	5.63	34.48	27.21	96.0	1.445
501.	6.95	34.47			27.C3	111.7	ecc.	5.06	34.50	27.29	88.1	1.538
601.	6.27	34.46			27.11	104.5	1000-	4.30	34.52	27.39	79.1	1.707
80C.	5.06	34.50			27.29	88.1	1200.	3.70	34.55	27.48	71-1	1.859
1000.	4.30	34.52			27.35	79.1						
1199.	3.74	34.56			27.48	71.0						
1452.	3.05	34.58			27.57	63.0						

CRCPWELL CRY BULB		STATICA WET PULP		BN LAT, 150 WINO SPEED			1964, C3 R. 13	CO G.C.T. WEATHER OI	VI5. 8	CLOUD	TYPE 8.	COVER 2
CEPTH	TE⊭P.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.CPTH
0.	26.32	34.60			22.65	520.5	C.	26.32	34.60	22.65	520.5	0.000
11.	26.36	34.60			22.64	522.2	10.	26.36	34.60	22.64	522.1	0.053
30.6	26.30	34.61			22.67	520.4	20.	26.34	34.60	22.65	521.7	0.105
50.6	26.26	34.62			22.65	519.3	3C.	26.30	34.61	22.67	520.4	0.158
75.6	25.50	34.63			22.53	497.0	50.	26.26	34.62	22.69	519.3	0.262
100.	22.95	34.73			23.76	418.3	75.	25.50	34.63	22.93	497.0	0.390
124.	21.38	35.06			24.46	353.1	100.	22.95	34.73	23.76	418.3	0.506
150.	18.93	34.92			25.00	302.1	15C.	18.93	34.92	25.CC	302.1	0.687
175.	15.80	34.52			25.44	259.8	200.	12.45	34.29	25.97	209.2	0.816
188.	13.50	34.30			25.77	228.6	250.	10.42	34.43	26.45	164.0	0.910
222.	11.56	34.42			26.24	184 - C	30C •	9.96	34.56	26.64	147.6	C.989
248.	10.44	34.42			26.44	165.0	4CC.	8.6C	34.52	26.82	130.8	1.129
273.	10.32	34.53			26.55	155.4	500.	7.46	34.50	26.98	116.9	1.254
299.	9.97	34.56			26.63	147.9	£00.	6.64	34.50	27.10	106.6	1.367
397.	8.64	34.52			26.82	131.3	7CC -	5.85	34.5C	27.20	97.3	1.470
495.	7.51	34.50			26.57	117.4	800.	5.17	34.50	27.28	89.4	1.564
594.	6.69	34.50			27.09	107.2	1000.	4.26	34.52	27.40	78.4	1.734
791.	5.22	34.50			27.27	90.0	1200.	3.58	34.55	27.50	69.5	1.884
989.	4.30	34.52			27.39	79.0						
1186.	3.66	34.56			27.49	69.9						
1482.	2.92	34.59			27.59	60.9						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.20

Table 1.--Continued

		RIGINAL DA	TA	-	DERIVE	D DATA	+		-INTERPOLA	ATED DATA-		
CROPWELL ORY BULB		STATION WET PLLS		N LAT, 151- WINC SPEEC			1964, 12 R. 13	CO G.C.T. WEATHER 02	vI5. 8	CECUD	TYPE ,	COVER
0EPTH	ТЕМР.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN. CPTH
0.	26.56	33.58			21.81	6C1.2	С.	26.56	33.58	21.81	601.2	0.000
10.	26.65	33.63			21.82	600.7	10.	26.65	33.63	21.82	600.7	0.061
20.	26.65	33.65			21.84	599.€	20.	26.65	33.65	21.84	599.6	0.121
30.△	26.64	33.68			21.86	597.6	30.	26.64	33.68	21.86	597.6	0.181
51.	22.88	34.66			23.73	419.5	50.	23.09	34.61	23.63	429.1	0.285
77.	21.51	34.90			24.3C	366.4	75.	21.57	34.9C	24.28	367.6	0.385
102.	19.32	35.CC			24.96	304.2	100.	19.56	35.01	24.90	309.6	0.470
127.	14.22	34.35			25.66	237.7	15C.	12.12	34.31	26.05	200.2	0.599
152.	12.C3	34.33			26.CE	197.5	200-	11.45	34.70	26.48	160.7	0.690
177.	11.71	34.65			26.39	168.8	25C.	LC.46	34.66	26.63	147.5	0.767
192.	11.58	34.7C			26.45	163.1	300.	9.61	34.62	26.74	137.7	0.839
226.	10.94	34.68			26.56	154.0	400.	8.43	34.57	26.89	124.1	0.971
253.	10.4C	34.66			26.64	146.8	500.	7.33	34.54	27.C3	111.9	1.091
279.	9.92	34.61			26.68	142.9	€CO.	6.43	34.52	27.14	102.1	1.199
304.	9.55	34.62			26.75	136.6	700.	5.72	34.52	27.23	94.0	1.298
405.	8.38	34.57			26.90	123.7	.003	5.15	34.53	27.31	87.1	1.389
506.	7.27	34.54			27.04	111.2	1000.	4.23	34.55	21.42	76.1	1.554
607.	6.37	34.52			27.15	101.5	120C.	3.61	34.58	27.51	68.1	1.700
808.	5.11	34.53			27.31	86.6						
1009.	4.20	34.55			27.43	75.7						
1209.	3.59	34.58			27.52	67.8						
1478.	2.87	34.62			27.62	58.1						

CRDMWELL BLUB YRC		STATION WET BULB			1- OW LONG, 0 08, D1R.			G.C.T. EATHER 02	V15.	9 (10)	TYPE 1.	COVER 3
DEPTH	TEMP.	SAL.	DXY.	P04-P	SIGNA-T	DELTA	DEPTH	TEMP.	SAL.	51GM4-I	DELTA	DYN. DPIH
0.	27.21	33.27			21.37	643.2	0.	27.21	33.27	21.37	643.2	0.000
10.	26.89	33.29			21.49	632-4	10.	26.89	33.29	21.49	632.4	0.064
20.△	26.84	33.31			21.52	629.9	20.	26.84	33.31	21.52	629.9	0.128
30.△	25.80	33.61			22.07	577.5	30.	25.80	33.61	22.07	577.5	0.189
51.	14.20	34.39			25.68	233.4	50.	14.85	34.36	25.53	247.9	0.272
77.	12.00	34.44			26.17	187.0	75.	11.91	34.45	26.20	184.4	0.326
101.	11.47	34.59			26.39	167.0	100.	11.48	34.58	26.38	167.6	0.371
126.	10.98	34.66			26.53	153.9	150.	10.62	34.66	26.60	148.0	0.450
152.	10.59	34.66			26.60	147.7	200.	9.98	34.65	26.70	139.0	0.522
178.	10.29	34.66			26.66	143.2	250.	9.50	34.64	26.71	133.4	0.591
192.	10.08	34.66			26.69	140.0	300.	8.98	34.61	26.84	127.8	0.657
226.	9.70	34.63			26.73	136.7	400.	7.66	34.56	27.00	113.5	0.779
252.	9.49	34.64			26.78	133.1	500.	6.67	34.54	27.12	102.6	0.888
278.	9.28	34.64			26.81	130.3	600.	5.85	34.52	27.21	94.3	0.987
303.	8.93	34.61			26.84	127.4	700.	5.23	34.53	27.30	87.0	1.079
404.	7.61	34.56			27.01	112.9	800.	4.76	34.55	21.31	80.7	1.164
505.	6.63	34.54			27.13	102.1	1000.	4.04	34.57	27.46	72.3	1.318
605.	5.81	34.52			27.22	93.9	1200.	3.45	34.59	27.54	65.3	1.458
806.	4.74	34.55			27.37	80.4						
1008.	4.02	34.57			27.46	12.0						
1208.	3.43	34.59			27.54	65.1						
1498.	2.80	34.62			27.62	57.3						

TEMPERATURE ERROR TERM AT 50. METERS 15 0.16 TEMPERATURE ERROR TERM AT 75. METERS 15 0.14

CRCPWELL DRY BULB		STATICK WET BULE			47-58W LCNG, EO 13, CIR.		1964, 16 R. 13	GO G.C.T. WEATHER D2	V15.	7 CLDU	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN. DPTH.
C.	27.20	32.98	5.01	0.34	21.16	663.8	C.	27.2C	32.98	21.16	663.8	0.000
9.	27.27	33.10	4.90	0.39	21.23	657.7	16.	27.27	33.11	21.23	656.8	0.067
2C - ^	27.20	33.22			21.34	647.3	20.	27.20	33.22	21.34	647.3	0.132
3C.	27.08	33.33			21.46	636.1	30-	27.08	33.33	21.46	636.1	0.197
38.	23.72	34.47	5.41	C.55	23.34	456.0	5C.	22.16	34.63	23.91	402.0	0.301
47.	22.47	34.63	5.35	0.50	23.83	410.4	75.	14.19	34.40	25.71	231.6	0.381
56.	21.16	34.59	5.07	0.53	24.16	378.9	100.	12.60	34.48	26.09	195.9	0.435
65.	17.62	34.47	4.21	1.12	24.98	300.9	150.	11.23	34.73	26.54	153.8	0.523
71.	15.06	34.42	3.09	1.56	25.53	248.3	200.	10.75	34.74	26.63	145.9	0.599
96.	12.77	34.44	1.63	2.29	26.C2	201.8	250.	10.29	34.72	26.70	140.5	0.671
119.	12.05	34.66	0.64	2.39	26.33	172.8	300.	9.88	34.71	26.77	135.1	0.740
143.	11.34	34.72	0.43	2.68	26.51	156.2	400.	9.18	34.67	26.85	129.0	0.874
181.	10.93	34.74	0.41	2.69	26.6C	148.4	500.	8.46	34.64	26.95	121.2	1.000
238.	10.40	34.72	0.42	2.66	26.68	142.0	600.	7.46	34.58	27.04	112.8	1.118
286.	9.99	34.12	0.42	2.52	26.75	136.2	700.	6.50	34.55	27.15	102.7	1.227
381.	9.30	34.67	0.41	2.81	26.83	130-4	800.	5.71	34.54	27.25	93.7	1.326
477.	8.67	34.66	0.40	3.11	26.92	123.0	1000.	4.70	34.56	27.38	81.5	1.504
572.	7.75	34.59	0.36	3.06	27.C1	115.6	1200.	3.96	34.58	27.48	72.5	1.660
764.	5.95	34.54	0.63	2.90	27-22	96.4						
956.	4.89	34.55	1.00	3.23	27.35	83.9						
1148.	4.17	34.58	1.38	3.22	27.46	74.4						
1441.	3.36	34.59	1.67	3.10	27.55	66.0						

TEMPERATURE ERROR TERM AT 75. METERS IS 0.27

Table 1. -- Continued

					Idole	1. 0011	critaca					
	——С	RIGINAL DA	ΤΔ		DERIVE	D DATA	<del>                                     </del>		INTERPOL	ATED DATA-		
CROMWELL DRY 8UL8		STATION WET BULB		ON LAT, 148- WINC SPEED			1964, 01 R. 12	CO G.C.T. WEATHER 02	vis.	e crond	TYPE 8.	COVER 2
CEPTH.	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.4	27.20	33.10			21.25	655.2	0.	27.20	33.10	21.25	655.2	0.000
10.	27.07	33.12	4.81	0.26	21.30	650.1	10.	27.07	33.12	21.30	650.1	0.066
20 . △	26.CO	33.68			22.C6	578.0	20.	26.00	33.68	22.06	578.0	0.128
26.	24.03	34.37	5.14	0.40	23-18	471.5	30-	22.61	34.53	23.71	420.7	0.178
36.	20.64	34.58	4.90	0.55	24.29	365.4	50.	17.88	34.68	25.08	290.8	0.250
51.	17.73	34.68	4.32	C - 74	25.11	287.7	75.	14.24	34.46	25.74	228.7	0.315
61.	16.06	34.53	3.50	1.09	25.39	261-3	1CC.	12.23	34.67	26.30	175.3	0.366
76.	14.13	34.46	1.89	2.12	25.76	226.4	150.	10.98	34.70	26.56	151-7	0.448
93.	12.46	34.62	C-44	2.35	26.22	182.7	200-	10.54	34.7C	26-64	145.0	0.523
103.	12.17	34.68	0-27		26.33	173.1	25C.	10.09	34.70	26.72	138.8	0.595
126.	11.37	34.69	C-48	2 - 70	26.49	158.5	300.	9.71	34.68	26.77	134.6	0.664
178.	10.76	34.70	0.24	2.77	26.6€	148.3	400.	8.87	34.64	26.88	125.9	0.795
226.	10.31	34.70	0.34	2.70	26.68	141.7	50C.	7.99	34.58	26.97	118.5	0.918
278.	9.86	34.69	0.37	2.69	26.75	136.0	60C.	7.02	34.55	27.08	108.2	1.033
304-	9.68	34.68	0.34	2.81	26.7E	134.3	700.	6.18	34.53	27.18	99.1	1.138
404.	8.83	34.64	0.31	2.86	26.88	125.6	EOC.	5.5C	34.53	27.27	91.5	1.234
505.	7.94	34.58	C - 35	3.10	26.97	118.1	1CCC.	4.59	34.55	27.39	80.6	1.408
605.	6.97	34.55	0.42	3 . 29	27.C9	107.7	1200.	3.91	34.58	27.48	71.8	1.562
808.	5.45	34.53	0.63	3.58	27.27	91.0	1500.	3.09	34.62	27.59	60.9	1.764
1008.	4.56	34.55	1.17	3.59	27.39	80.2						
1208.	3.89	34.58	1.43	3.19	27.49	71.4						
1508.	3.07	34.62	1.80	3.15	27.60	60.7						

CROPWELL CRY BULB		STATION WET BULB		3N LAT, 148 WINC SPEEC			1964, 11 R. 15	CO G.C.T. WEATHER 02	VIS.	6 CLOUD	TYPE ,	COVER
DEPTH.	TEMP.	SAL.	EXY.	PE4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN.OPTH
C.△	26.96	33.40			21.55	626.2	0.	26.96	33.40	21.55	626.2	0.000
1C+,	26.96	33.4C	4.92	0.32	21.55	626.6	1C.	26.96	33.40	21.55	626.6	0.063
20.△	26.91	33.52			21.66	616.9	20.	26.91	33.52	21.66	616.9	0.126
25.	26.90	33.54	4.89	0.29	21.67	615.3	30.	26.00	33.92	22.24	561.1	0.185
30.△	26.00	33.92			22.24	561.1	5C.	20.32	34.76	24.51	344.8	0.276
38.	23.42	34-40	5.31	0.49	23.38	452.7	75.	16.81	34.52	25.21	279.3	0.355
51.	20.13	34.77	5.18	C.35	24.57	339.3	100.	12.70	34-26	25.90	214.1	0.417
61.	19.28	34.74	4.80	0.64	24.77	320.7	150.	11.29	34.60	26.43	164.4	0.512
71.	16.41	34.48	3.47	1.16	25.27	273.1	200.	10.42	34.67	26.64	145.2	0.590
92.	14.11	34.34	3.58	1.23	25.67	235.2	25C.	9.88	34.66	26.73	137.9	0.662
102.	12.38	34.24	3.02	1.45	25.95	209.3	300.	9.20	34.63	26.81	130.5	0.729
127.	11.81	34.48	1.05	2.37	26.24	181.8	400.	7.95	34.56	26.96	117.8	0.855
178.	10.73	34.66	C.27	2.70	26.58	150.7	500.	7.00	34.52	27.06	108.6	0.969
226.	10.12	34.66	0.17	2.66	26.69	141.4	60C.	6.21	34.52	27.17	99.3	1.074
279.	9.54	34.65	0.20	2.72	26.78	133.7	700.	5.60	34.53	27.25	91.6	1.170
304.	9.13	34.62	0.17	2 - 39	26.82	129.9	.003	5.10	34-54	27.32	85.7	1.260
405.	7.90	34.56	C.44	2.54	26.96	117.2	ICCC.	4-21	34.56	27.43	75.1	1.423
506.	6.95	34.52	C-44	3.22	27.07	108.1	1200.	3.61	34.58	27.51	68.0	1.568
607.	6.16	34.52	0.51	2.59	27.17	98.6	1500.	2.92	34.61	27.60	59.6	1.762
809.	5.06	34.54	C.74		27.33	85.2						
1009.	4.18	34.56	1.21	3.15	27.44	74.7						
1209.	3.59	34.58	1.49	3.41	27.52	67.8						
1509-	2.91	34.61	1.84	3.12	27.6C	59.5						

CROMWELL CRY BULB		STATIEN WET BULB		BN LAT. 147- WIND SPEED			1964, 19 . 16	CO G.C.T. WEATHER 02	V15. 8	CLDUO	TYPE 8.	COVER 4
DEPTH.	TEMP.	SAL.	CXY.	P04-P	S1GMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH
C. <sup>△</sup>	26.78	33.73			21.85	597.0	C.	26.78	33.73	21.85	597.0	0.000
10.	26.67	33.74	4.85	1.20	21.90	593.4	10.	26.67	33.74	21.90	593.4	0.060
10. 30.	26.58	33.76			21.94	590.0	20.	26.83	33.73	21.83	599.7	0.120
61.	19.54	34.56	4-60		24.57	340-1	30.	26.58	33.76	21.94	590.0	0.180
68.	16.30	34.42	3.08	1.44	25.25	274.8	50.	23.20	34.36	23.41	450.3	0.285
77.	14.57	34.37	2.49	1.90	25.6C	241.9	75.	14-8C	34.37	25.55	246.3	0.372
86.	13.74	34.35	2.24	1.51	25.76	226.9	100.	12.45	34.36	26.03	201.6	0.429
94.	12.91	34.32	2.12	1.95	25.90	213.2	150.	10.33	34.45	26.49	158.6	0.520
102.	12.32	34.38	1.69	2.55	26.07	197.9	200.	9.89	34.57	26.66	143.5	0.596
127.	11.49	34.52	0.79		26.33	173.2	250.	8.79	34.47	26.76	134.7	0.666
153.	10.19	34-44	1.20		26.50	157.2	300.	8.16	34.47	26.86	125.7	0.732
192.	10.04	34.58	C.38	3.71	26.64	145.3	400 -	7.52	34.52	26.99	114.6	0.853
253.	8.72	34.46	0.53	3.49	26.76	134.3	500.	6.84	34.50	27.C7	107.8	0.965
279.	8.33	34.45	0.52	3.70	26.81	129.6	60C.	6.10	34.50	27.17	99.2	1.070
304.	8.14	34.48	0.42	2.52	26.87	124.9	700-	5.52	34.51	27-24	92.3	1.166
404.	7.50	34.52	C-42	2.88	26.99	114.3	8CC.	5.04	34.52	27.31	86.4	1.257
507.	6-79	34.50	C.52		27.07	107.3	1ccc.	4.19	34.56	27.44	74 - 8	1.420
607.	6.05	34.50	0.62	2.90	27.17	98.6	1200.	3.60	34.57	27.51	68.5	1.565
807.	5.01	34.52	C.68	3.41	27.32	86.C						
1007.	4.16	34.56	1.06	3.20	27.44	74.5						
1207.	3.58	34.57	1-41	3.40	27.51	68-4						
1495.	2.85	34.60	1.72	3.10	27.6C	59.4						

TEMPERATURE ERROR TERM AT 2C. METERS IS 0.15
TEMPERATURE ERROR TERM AT 5C. METERS IS 0.13
SALINITY ERROR TERM AT 5C. METERS IS 0.12

 $\Delta PROM$  BT DATA

Table 1.--Continued

		RIGINAL DA	TA		DERIVE	D DATA-	+		INTERPOLA	red data-		
CROMMELL ORY BULB		STATION AFT BULB		ON LAT, 148- WIND SPEED			1964, 04 R. 15	00 G.C.T. WEATHER 02	VI5. 8	C £ 0 U O	TYPE 9,	COVER 4
OEPTH	TEMP.	SAL.	FXY.	P04-P	SIGMA-I	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPIH
0.	26.39	14.10	3.69	0.54	22.26	558.6	0.	26.39	34.10	22.26	558.6	0.000
10.	26.35	34.09	4.20	0.29	22.26	558.6	10.	26.35	34.09	22.26	558.6	0.056
30.△	26.24	34.09			22.29	556.1	20.	26.30	34.09	22.28	557.5	0.112
50.△	26.16	34.17			22.33	553.7	30.	26.24	34.09	22.29	556.1	0.169
76.	22.50	34.66	5.11	0.52	23.84	410.1	50.	26.16	34.10	22.33	553.7	0.200
101.	20.91	34.75	4.82	0.45	24.35	362.4	75.	22.66	34.64	23.7B	416.1	0.402
126.	18.63	34.76	4.24	0.72	24.95	305.6	100.	20.96	34.75	24.33	363.6	0.501
150.	15.91	34.51	4.00	0.86	25.41	262.2	150.	15.91	34.51	25.41	262.2	0.658
175.	13.16	34.24	5.17	1.56	25.79	226.0	200.	11.60	34.23	26.05	201.7	0.115
191.	12.06	34.16	3.26	1.43	25.95	211.5	250.	11.03	34.63	26.50	159.9	0.966
224.	11.52	34.51	0.90	2.62	26.32	176.7	300.	10.65	34.67	26.60	151.2	0.945
251.	11.01	34.63	0.40	2.56	26.5C	159.5	400.	9.55	34.64	26.77	137.1	1.090
277.	10.94	34.68	0.19	2.76	26.56	155.2	500.	8.56	34.60	26.90	126.0	1.223
301.	10.63	34.67	0.16	2.70	26.60	151-1	600-	7.37	34.52	27.01	115.5	1.345
401.	9.54	34.64	0.27	2.66	26.77	137.0	700 -	6.51	34.50	27-11	106.2	1.457
503.	8.53	34.60	0.35	3.10	26.9C	125.7	800.	5.84	34.51	27.21	97.6	1.560
602.	7.35	34.52	0.41	2.87	27.01	115.3	1 COO.	4.65	34.52	27.36	83.6	1.744
802.	5.83	34.51	50.0	3.34	27.21	97.5	1200.	3.90	34.54	27.45	74.5	1.904
1001.	4.65	34.52	0.77	3.41	27.36	83.5	1500.	3.06	34.58	27.57	63.4	2.113
1201-	3.90	34.54	1-68	2.93	27.45	74.5						
1500.	3.06	14.58	1-44	2.78	27.57	63.4						

CROMWELL ORY BULB		STATION WET BULB			7-59W LCNG, 0 20, CIR.		1964. 14	CO G.C.T. WEATHER OZ	VI 5.	8 CECUE	TYPE .	COVER
CEPTH	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CELTA	CEPTH	IEPP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	25.70	34.56	4.73	0.52	22.82	505.0	C -	25.70	34.56	22.82	505.0	0.000
10.,	25.68	34.56	4.86	0.63	22.82	504.8	1 C .	25.68	34.56	22.82	504.8	C-051
3.C - ^	25.68	34.56			22.82	505.6	20.	25.69	34.56	22.82	505.€	C.102
50.△	25.42	34.56			22.9C	498.7	3C.	25.68	34.56	22.82	505.6	0.153
17.	23.39	34.79	5.15	0.41	23.68	425.2	50.	25.42	34.56	22.90	498.7	0.254
99.	22.18	34.82	5.10	0.40	24.C5	390.8	75.	23.56	34.77	23.62	431.3	0.371
124-	21.20	35.01	4.94	0.27	24.47	352.0	1CC.	22.13	34.83	24.C7	389.1	0.474
151.	20.39	35.04	4.66	0.54	24.71	329.9	150-	20.43	35.04	24.70	330.6	0.656
177.	18.80	34.88	4.31	0.91	25.CC	302.8	200 -	16.87	34.62	25.28	276.7	0.809
191.	17.76	34.74	4.17	1.38	25.15	288.6	25C •	12.23	34.18	25.93	214.6	0.933
223.	14.48	34.35	3.68	1.36	25.6C	245.6	3CC.	1C-44	34.31	26.36	174.2	1.031
250.	12.23	34.18	3.24	1.58	25.93	214.6	40C-	8.94	34.47	26.73	139.7	1.189
276.	11.19	34.19	2.78	2.07	26.13	195.5	500.	7.69	34.47	26.92	122.3	1.321
302.	10.38	34.32	1.85	2.46	26.3E	172.5	écc.	6.82	34.47	27.05	111.3	1.439
402.	8.92	34.47	0.48		26.74	139.5	70C -	6.09	34.48	27.15	101.7	1.547
502.	7.67	34.47	0.37	3.22	26.93	122.1	800.	5.48	34.50	27.24	93.5	1.645
604.	6.79	34.47	0.37	3.43	27.05	111.G	ICOC.	4.61	34.52	27.36	83.0	1.824
8C3+	5.46	34.5C	C.56	3.56	27.25	93.3	1200.	3.92	34.54	27.45	74.7	1.984
1002.	4.60	34.52	C.79	3.29	27.36	82.9	1500.	3.06	34.58	27.57	63.4	2.194
1201.	3.92	34.54	1.06	3.45	27.45	74.7	2000.	2.23	34.63	27.68	52.2	2.468
150C.	3.06	34.58	1.44	3.26	27.57	63.4	25CC.	1.83	34.66	27.73	47-1	2.741
1989.	2.24	34.63	2.02	2.80	27.68	52.4	3C0C+	1.64	34.68	27.77	44.7	2.975
2487.	1.84	34.66	2.50	2.51	27.73	47.2	4C00.	1.44	34.7C	27.79	43.5	3.427
2985.	1.64	34.68	2.87	2.75	27.76	44.7						
3994.	1.46	34.69	3.54	2.31	27.75	44.2						
4991.	1.45	34.70	3.89	2.48	27.75	45.9						

CRCMWELL CRY 8UL8		STATION WET PLLB			7-54W LCNG		1964, CI R. 17	CO G.C.T. WEATHER 02	A12*	8 CLOUO	TYPE 8.	COVER 5
OEPTH	TEMP.	SAL.	CXY.	PC4-P	51GMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN.CPTH.
1.	25.57	34.77	4.80	0.29	23.01	486.1	С.	25.57	34.77	23.01	486.0	0.000
10.	25.52	34.76	4.82	0.29	23.C2	485.7	10.	25.52	34.76	23.02	485.7	0.049
30.△	25.38	34.74			23.C5	483.8	20.	25.45	34.75	23.04	484.8	0.098
50.△	25.32	34.74			23.C7	482.8	3C.	25.38	34.74	23.05	483.8	0.147
75.	24.CO	34.78	5.09	C.29	23.5C	443.0	5C.	25.32	34.74	23.07	482.8	0.244
100.	22.71	34.94	5.04	0.26	23.99	396.5	75.	24.0C	34.78	23.50	443.0	0.361
125.	22.26	35.08	4.96	0.19	24.23	375.2	10C.	22.71	34.94	23.99	396.5	C.466
150.	21.58	35.17	4.82	0.36	24.48	351.4	15C.	21.58	35.17	24.48	351.4	0.655
174.	20.36	35.C2	4.63	0.44	24.7C	331.4	200-	18.56	34.88	25.06	297.7	0.818
187.	19.70	35.01	4.50	0.56	24.87	315.9	250.	14.52	34.42	25.65	241.7	0.954
221.	16.55	34.62	4.CO	0.23	25.35	270.5	300.	11.02	34.15	26.12	196.6	1.065
247.	14.82	34.46	4.38	0.77	25.61	245.4	40C.	7.98	34.12	26.61	150.6	1.240
272.	12.40	34.19	3.93	1.97	25.9C	217.6	50C.	6.71	34.21	26.86	127.5	1.361
295.	11.29	34.16	3.49	1.52	26.09	200.0	600.	6.06	34.33	27.04	111.4	1.501
393.	8.12	34.12	2.70	2.24	26.59	152.8	70C.	5.48	34.4C	27.17	99.6	1.608
491.	6.79	34-20	1.40	2.86	26.84	129.3	8CC.	4.99	34.45	27.26	91-1	1.704
591.	6.12	34.32	0.67	3.10	27.C2	112.7	1000.	4.31	34.51	27.38	80.2	1.878
783.	5.06	34.44	0.90	3.24	27.25	92.3	120C.	3.68	34.55	27.48	71.2	2.031
978.	4.38	34.50	1.07	3.28	27.37	81.3						
1174.	3.75	34.54	1.18		27.47	72.4						
1420.	3.08	34.58	1.42	3.20	27.56	63.1						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.12

Table 1.--Continued

	0	RIGINAL DA	ΤΑ		DERIVED	DATA			INTERPOLA	ATED DATA-		
CRCHWELL ORY BULB		STATICA WET BULB			7-58W LCNG, C 14. C1R.		1964, 116 R. 15	CO G.C.T. WEATHER 02	VI5.	e cron	C TYPE ,	COVER
DEPIH	TEMP.	SAL.	CXY.	PC4-P	SICMA-T	CEL 1A	CEPIH	TEMP.	SAL.	SIGMA-T	CELTA	OYN. OPTH.
C.	25.21	34.80	4.82	0.27	23.15	473.3	0.	25.21	34.80	23.15	473.3	0.000
9.	25.27	34.8C	4.82	0.39	23.13	475.4	1C.	25.27	34.8C	23.13	475.5	0.048
3C.	25.22	34.8C			23.14	474.8	20.	25.26	34.80	23.13	475.6	0.096
5 C ♣	25.16	34.80			23.16	473.8	3C-	25.22	34.80	23.14	474.8	0.144
75.	25.12	34.8C			23.17	473.7	50.	25.16	34.8C	23.16	473.8	0.239
1CC.	22.84	34.97	5.06		23.98	397.9	75.	25.12	34.80	23.17	473.7	0.358
124.	22.02	35.12	4.96	C-26	24.32	365.8	100.	22.84	34.97	23.98	397.9	0.468
150.	20.50	35.04	4.62	0.87	24.68	332.7	150.	20.50	35.04	24.68	332.7	0.652
175.	19.20	34.94	4.36	0.47	24.94	308.2	200.	17.82	34.79	25.17	286.9	808.0
191.	18,40	34.86	4.30	0.71	25.0E	295-1	250.	14.33	34.4C	25.67	239.7	0.941
225.	16.06	34.57	4.10	1.08	25.42	263.4	300.	11.48	34.15	26.05	204.2	1.053
250.	14.33	34.40	4.43	1.72	25.67	239.7	40C -	8.05	34.04	26.53	157.8	1.236
277.	12.54	34.22	4.64	1.38	25.90	218.2	SCC.	6.19	34.07	26.81	131.1	1.382
300.	11.48	34-15	4.73		26-05	204.2	égc.	5.46	34.25	27.05	109.1	1.503
400.	8.05	34.04	3.54	1.73	26.53	157.8	700.	5.04	34.38	27.20	95.4	1.606
502.	6-17	34.07	1.83	2.65	26.82	130.6	800.	4.74	34.46	27.30	87.1	1.698
603.	5.45	34.26	C.75	3.25	27.06	108.5	1000.	4.13	34.51	27.4C	77.8	1.865
803.	4.73	34.46	0.80	3.10	27.3C	86.9	1200.	3.59	34.54	27.48	70.6	2.016
1004.	4.12	34.51	C.98	3.58	27.41	77.6						
1203.	3.58	34.54	1.15	3.06	27.48	70.5						
1429.	2.95	34.56	1.49	3.28	27-56	63.1						

DRY SULS		STATICA WET BULB		ON LAT, 147 WIND SPEEC		, SEP. 16, 1 C7 8AR.		CO G.C.T.	VI5.	e crene	TYPE 6,	COVER 7
DRT COEG	2700	MET COLC	51.43	WINC SPECO	TO PIKE	C) 04/15	2.0	HCATTCH 25	****		1116 07	
OEPTH	TEMP.	SAL.	CX4"	PC4-P	SIGMA-T	CELTA	OEPTH	TEMP.	SAL	5 I GMA-T	DELTA	DYN.OPTH
С.	25.35	34.88	4.72		23.16	471.6	C -	25.35	34.88	23.16	471.6	0.000
1C.	25.35	34.89	4.85	C.38	23.17	471-3	10-	25.35	34.89	23.17	471.3	0.047
3€.	25.35	34.89			23.17	472.1	20.	25-38	34.89	23.16	472.9	0.095
50.	24.80	34.96	4.91	0.25	23.39	451.9	30.	25.35	34.89	23.17	472.1	0.143
76.	23.90	34.89	5.07	0.16	23.61	432.3	5C •	24.80	34.96	23.39	451.9	0.236
102.	22-11	35.12	5.18	C.15	24.3C	367.4	75.	23.94	34.89	23.60	433.4	0.347
126.	21.34	35.20	5.04	C.78	24.57	342.1	100-	22.25	35.10	24.24	372.4	0.449
152.	20.45	35.12	4.78	0.57	24.75	325.7	150.	20.53	35.13	24.74	326.9	0.625
177.	19.16	35.00	4.53	0.34	25.CC	302.9	200.	17.53	34.76	25.22	282.3	0.778
192.	18.12	34.84	4.43	0.41	25.14	289.9	25C.	13-67	34.28	25.72	235.4	0.909
226.	15.55	34.50	4.36	0.97	25.48	257.4	300.	10.72	34.11	26.15	193.6	1.017
252.	13.52	34.26	4.00	0.72	25.73	233.6	400 -	7.92	34.07	26.58	153.7	1.192
279.	11.80	34.14	4.11	1.33	25.58	210.3	50C-	6.04	34.IC	26 - 85	127.1	1.334
304.	10.54	34-11	3.79	1.70	26.18	190.7	60C.	5.44	34.26	27.06	108.6	1.453
404.	7.86	34.07	3.16	2.42	26.59	152.8	70C.	5.00	34.37	27.20	96.0	1.556
506.	5.96	34.10	1.59	2.64	26.87	125.7	8CC-	4.61	34.44	27.29	87.1	1.649
607.	5.43	34-27	C.73	3.50	27.C7	107.6	1CCC.	4.04	34.52	27.42	76.1	1.814
808.	4.58	34.44	C.86	3.21	27.30	86.6	1200.	3.45	34.55	27.50	68.3	1.960
1009.	4.02	34.52	1.10	3.29	27-42	75.7	1500.	2.82	34.60	27.60	59.2	2.154
1210.	3.42	34.55	1.35	3.10	27.51	67.9	.,,,,,			•		
1508.	2.81	34.60	1.59	3.10	27.6C	59.C						

CRCMWELL ORY BULB		STATICN WET BULB			7-59W LCNG, D 22, DIR.		1964, 04 R. 18	CO G.C.T. WEATHER OI	VIS.	e crono	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN. DPTH
C.	24.80	35.20	4.90	0.34	23.57	432.6	c.	24.80	35.20	23.57	432.6	0.000
10.,	24.81	35.21	4.92	0.29	23.58	432.6	10.	24.81	35.21	23.58	432.6	0.044
3C.4	24.81	35.21			23.58	433.4	20.	24.81	35.21	23.58	432.9	0.087
50.△	24.81	35.21			23.58	434.2	30.	24.81	35.21	23.58	433.4	0.131
76.	21.60	35.27	4.96	0.28	24.55	342.0	50.	24.81	35.21	23.58	434.2	0.218
101.	20.98	35.28	4.96	0.18	24.73	326.C	75.	21.73	35.27	24.52	345.7	0.316
126.	20.36	35.23	4.83	0.24	24.86	314.5	10C.	20.98	35.28	24.73	325.9	0.401
152.	19.43	35.11	4.75	0.32	25.01	300.7	150.	19.52	35.12	25.00	301.9	0.559
179.	17.92	34.86	4.55	0.60	25.20	283.3	200-	16.38	34.63	25.39	265.5	0.702
193.	16.87	34.70	4.59	0.56	25.33	271.1	250.	12.90	34.23	25.84	223.6	C.825
226.	14.61	34.40	4.21	0.80	25.61	244.8	30C •	10.66	34.12	26.17	191.6	0.930
252.	12.77	34.22	4.29	1.03	25.85	221.9	40C -	8.21	34.04	26.51	160.0	1.108
279.	11.31	34.14	4.62	1.20	26.07	201.4	500.	6.16	34.03	26.79	133.6	1.256
304.	10.56	34.12	4.73	1.24	26.19	190.3	60C.	5.07	34.12	26.99	114.0	1.381
404.	8-13	34.04	3.60	1.54	26.52	159.0	700.	4.60	34.25	27.15	99.5	1.489
505.	6.08	34.03	2.05	3.25	26.80	132.5	800.	4.40	34.38	27.27	88.7	1.584
607.	5.02	34.13	1.43	3.18	27.C1	112.8	1CCC.	3.91	34.50	27.42	76.0	1.751
808.	4.39	34.39	C - 77	3.30	27.28	88.0	120C.	3.42	34.53	27.49	69.4	1.898
1009.	3-89	34.50	1.14	3.24	27.42	75 . €	1500.	2.82	34.58	27.59	60.5	2.095
1209.	3.40	34.53	1.35	3.52	27.49	69.2						
1509.	2.80	34.58	1.62	2.88	27.59	60.3						

∆FROM BT OATA

Table 1.--Continued

	c	RIGINAL DA	TA		DERIVE	D DATA-			INTERPOLA	red data—		-
CRCMWELL CRY BULB		STATIEN WET BULB		ON LAT, 147 WINO SPEEC			1964, 14 R. 19	CO G.C.T. WEATHER 25	VIS. 5	CLOUO	TYPE ,	COVER
OEPTH	TEMP.	SAL.	CXY.	PQ4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL	SIGMA-T	CELTA	OYN-OPTH
C.	24.40	35.22	5.02	0.16	23.71	419.7	С.	24.40	35.22	23.71	419.7	0.000
10.	24.41	35.22	4.95	0.25	23.71	420.4	1C.	24.41	35.22	23.71	420.4	0.042
30.△	24.30	34.84			23.45	445.4	20.	24.39	35.00	23.55	435.6	0.085
49.	23.90	35.32	5.22	0.19	23.93	400.2	3C.	24.30	34.84	23.45	445.4	0.130
73.	21.97	35.26	5.31	0.14	24.44	352.4	50.	23.83	35.32	23.96	397.9	0.215
98.	20.87	35.26	5.21	0.18	24.75	324.4	75.	21.86	35.26	24.47	349.5	0.309
122-	20.31	35.26	5.15	0.23	24.90	310.9	100.	20.82	35.26	24.76	323.0	0.394
147.	19.62	35.18	5.12	0.19	25.C2	300.2	150+	19.47	35.15	25.C3	298.9	0.550
172.	18.50	34.95		0.30	25.13	290.3	20€.	17.47	34.82	25.28	276.2	0.695
186.	18.24	34.94	4.91	0.45	25.19	285.3	250.	14.17	34.39	25.70	237.5	0.825
219.	16.11	34.61	4.90	0.52	25.44	261.4	30C •	11.77	34.19	26.02	206.9	0.937
245.	14.42	34.41	4.83	0.65	25.66	240.7	4CC.	8.86	34.05	26.42	169.3	1.127
271.	13.19	34.3C	4.83	0.71	25.83	224.7	50C.	6.59	34.02	26.73	139.7	1.283
295.	11.97	34.20	4-93	1.18	25.99	209.4	600.	5.61	34.09	26.90	123.0	1.415
392.	9.09	34.06	4.35	1.59	26.39	172.2	700.	4.89	34.20	27.07	107.2	1.532
492.	6.70	34.C2	2.65	1.90	26.71	141.3	ecc.	4.41	34.31	27.22	93.8	1.633
590.	5.69	34.08	1.34	2.56	26.89	124.8	1000.	3.95	34.48	27.40	78.1	1.807
787.	4.46	34.30	0.51	3.58	27.2C	95.3	1200.	3.54	34.55	27.49	69.5	1.957
985.	3.98	34.47	1.05	3.30	27.39	78.7						
1176.	3.64	34.52	1.21	3.50	27.46	72.5						
1461-	2.95	34.57	1.54	3.23	27.57	62.6						

SALINITY ERRCR TERM AT 20. METERS IS 0.06

CROMWELL ORY BULB		STATICA WET BULR		BN LAT, 148 WINO SPEED				CO G.C.T. WEATHER 02	VIS.	8 CLQUO	TYPE 8,	COVER 3
CEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	24.32	35.36	4.96	0.19	23.84	407.3	0.	24.32	35.36	23.84	407.3	0.000
8.,	24.29	35.36	5.00	0.33	23.85	406.8	10.	24.28	35.32	23.82	409.4	0.041
8. A 30. A 50.	24.18	34.88			23.52	439.1	20.	24.23	35.11	23.68	423.6	0.083
50.4	24-10	34.89			23.55	436.9	3C.	24.18	34.88	23.52	439.1	0.127
72.	21.29	35.30	5.21	0.35	24.66	331.5	50.	24.10	34.89	23.55	436.9	0.215
97.	20.72	35.28	5.19	0.20	24.8€	319.1	75.	21.15	35.31	24.71	327.1	0.311
120.	20.24	35.26	5.08	0.15	24.92	309-1	100.	20.66	35.28	24.82	317.7	0.392
145.	19.67	35.22	5.00	0.45	25.C3	298.5	150.	19.53	35.19	25.05	297.0	0.547
170.	18.81	35.07	4.91	0.40	25.14	289.0	200.	16.81	34.78	25.41	263.9	0.688
18C.	18.33	35.01	4.91	0.24	25.22	282.2	250.	14.02	34.52	25.83	224.9	0.812
202.	16.65	34.76	4.74	1.10	25.43	262.0	300.	12.22	34.33	26.05	204.7	0.920
221.	15.63	34.66	4.77	0.50	25.59	247.3	400.	9.42	34.14	26.40	171.8	1.110
239.	14.58	34.56	4.78	0.76	25.74	232.9	50 <b>0</b> .	7.15	34.03	26.66	146.9	1.271
257.	13.69	34.49	4.80	0.72	25.88	220.3	600.	5.50	34.06	26.89	124.1	1.408
329.	11.46	34.24	4.98	0.99	26.12	197.9	700.	4.78	34.15	27.05	109.4	1.526
400.	9.42	34.14	4.96	1.32	26.40	171.8	860.	4.44	34.26	27.17	98.1	1.631
474.	7.69	34.04	4.02	2.04	26.59	153.7	1000.	3.66	34.46	27.41	75.7	1.806
614.	5.33	34.07	1.53	2.88	26.92	121-2						
761.	4.60	34.22	0.62	3.15	27.12	102.6						
907.	4.03	34.37	0.59	3.12	27.3C	86.0						
1029.	3.56	34.49	1.11	3.19	27.45	72.6						

SALINITY ERRCR TERM AT 20. METERS IS 0.05

CRO⊭WELL DRY BULB		STATION WET BULB			1- 5W LCNG D 14, DIR.			00 G.C.T. WEATHER 02	VIS.	8 CL0U0	TYPE ,	COVER
DEPTH	TEMP.	SAL.	UXY.	P04-P	S1GMA-T	DELTA	OEPTH	TEMP.	SAL.	51GMA-T	DELTA	OYN.DPTH.
0.	25.09	35.00			23.33	455.4	0.	25.09	35.00	23.33	455.4	0.000
10.	25.08	35.00			23.34	455.5	10.	25.08	35.00	23.34	455.5	0.046
30 •∆	25.0E	35.00			23.34	456.3	20.	25.08	35.00	23.34	455.9	0.092
50.△	25.07	35.00			23.34	456.8	30.	25.08	35.00	23.34	456.3	0.138
74.	22.83	35.00			24.00	394.5	50.	25.07	35.00	23.34	456.8	0.230
97.	21.64	35.15			24.45	352.5	75.	22.76	35.01	24.03	392.3	0.337
120.	20.96	35.22			24.69	330.5	100.	21.54	35.17	24.49	348.9	0.430
142.	20.14	35.16			24.87	314.6	150.	19.90	35.13	24.90	311.1	0.596
165.	19.46	35.08			24.98	304.1	200.	17.69	34.89	25.28	276.6	0.744
177.	19.08	35.08			25.08	295.1	250.	14.37	34.52	25.76	231.7	0.873
204.	17.39	34.94			25.32	273.2	100 •	11.90	34.30	26.08	201.l	0.982
226.	15.82	34.65			25.54	252.3	400.	9.05	34.09	26.42	169.5	1.169
246.	14.65	34.54			25.71	236.0	500.	7.06	34.02	26.66	146.2	1.328
263.	13.47	34.46			25.90	218.3	600.	5.38	34.10	26.94	119.5	1.462
331.	11.06	34,19			26.15	194.5	700.	4.64	34.20	27.11	103.6	1.575
400.	9.05	34.09			26.42	169.5	800.	4.30	34.31	27.23	92.4	1.674
472.	7.63	34.02			26.58	154.2	1000.	3.73	34.47	27.41	75.9	1.844
609.	5.25	34.11			26.96	117.2	1200.	3.28	34.53	27.51	67.7	1.990
749.	4.48	34.26			27.17	98.1						
R90.	4.04	34.40			27.33	83.8						
1107.	3.47	34.51			27.47	70.7						
1200.**	3.25**				27.51	67.7						

TEMPLRATURE EPROR TERN AT 300. METERS IS 0.14

ΔFROM 8T OATA
\*\*EXTRAPOLATED DATA

Table 1.--Continued

	——с	RIGINAL DA	TA		DERIVE	D DATA-			INTERPOLA	red data—		
CROMWELL ORY BULB		STATICA MET BUL8		ON LAT, 154- WIND SPEED			1964, 06	00 G.C.T. WEATHER 01	V15. 8	CLOUD	TYPE .	COVER
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	OEPTH	TEMP.	SAL.	SIGMA+7	DELTA	OYH.OPTH
0.	25.05	35.42	4.96	0.20	23.66	424.0	0.	25.05	35.42	23.66	424.0	0.000
10.	24.98	35.42	5-00	1.08	23.69	422.4	10.	24.98	35.42	23.69	422.4	0.043
30.△	24.88	35.42			23.72	420-3	20.	24.92	35.42	23.70	421-1	0.085
50.△	24.84	35.42			23.73	419.9	30.	24.88	35.42	23.72	420.3	0.127
74.	21.59	35.22	5.28	0.92	24.52	345.3	50.	24.84	35.42	23.73	419.9	0.212
98.	20.96	35.28	5.22	0.35	24.74	325.3	75.	21.55	35.22	24.53	343.9	0.308
121-	19.56	35.07	4.90	1.32	24.95	305.8	100.	20.85	35.27	24.76	323.5	0.392
146.	18.50	34.92	4.71	0.96	25.11	291.6	150.	18.33	34.90	25.13	289.3	0.547
170.	17.43	34.78	4.67	1.28	25.26	277.3	200.	15.86	34.60	25.49	255.7	0.684
185.	16.69	34.69	4.80		25.37	267.5	250.	13.19	34.33	25.85	222.2	0.805
218.	14.83	34.50	4.87		25.64	241.8	300.	11.50	34.21	26.09	200.2	0.911
244.	13.47	34.35	4.80		25.81	225.8	400.	9.34	34.11	26.39	172.8	1.099
269.	12.41	34.27	4.90		25.96	211.8	500.	6.90	34.00	26.66	145.9	1.260
293.	11.67	34.22	4.95		26.C7	202.4	600.	5.52	34-03	26.87	126.2	1.398
392.	9.55	34.12	4-73		26.36	175.2	700.	4.76	34.15	27.05	109.3	1.517
488.	7.12	34.00	3.54		26.64	148.6	.008	4.34	34.28	27.20	95.2	1.620
586.	5.66	34.02	2.04		26.84	128.8	1000.	3.71	34.45	27.40	76.9	1.794
78C.	4.42	34.26	C.57		27.18	97.7	1200-	3.22	34.54	27.52	65.9	1.939
977.	3.77	34.44	C-89		27.39	78.4						
1163.	3.33	34.52	1.27		27.49	68.7						
1446.	2.75	34.58	1.59		27.59	59.4						

CRCMWELL ORY BULB		STATICK WET BULB		9N LAT, 157- WINC SPEED		. SEP. 19, 1 07 BAR.		CO G.C.T. WEATHER 03	V15. 8	CLOUD	TYPE 2,	COVER 5
OEPTH	TEMP.	SAL.	EXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	51GMA-T	OELTA	OYN.OPTH
C.	25.63	35.00			23.17	471.2	0.	25.63	35.00	23.17	471.2	0.000
10.	25.59	35.CC			23.18	470.5	10.	25.59	35.00	23.10	470.5	0.047
30.⁴	25.52	35.00			23.20	469.2	20.	25.55	35.00	23.19	469.8	0.095
50. <sup>Δ</sup>	25.50	35.01			23.22	468.7	30.	25.52	35.00	23.20	469.2	0.142
77.	24.10	35.C7			23.69	425.0	50.	25.50	35.01	23.22	468.7	0.237
102.	22.81	35.15			24.12	384.2	75.	24.23	35.06	23.64	429.0	0.350
127.	21.87	35.16			24.4C	359.0	100.	22.91	35.14	24.09	387.2	0.452
153.	20.77	35.12			24.67	334.0	150.	20.91	35.13	24.63	336.9	0.635
178.	19.23	34.97			24.96	306.8	200.	18,28	34.89	25.13	290.7	0.793
193.	18.63	34.92			25.07	296.3	250.	15.71	34.60	25.53	254.0	0.930
227.	16.84	34.73			25.36	269.3	300.	13.31	34.34	25.84	224.8	1.051
254.	15.50	34.58			25.56	251.3	400-	10.08	34.13	26.28	183.7	1.257
279.	13.97	34.41			25.76	232.4	500.	7.74	34.02	26.57	156.0	1.429
304.	13.21	34.33			25.85	223.7	600.	5.94	34.03	26.81	132.1	1.574
405.	9.93	34.12			26.3C	181.7	700.	4.98	34.14	27.02	112.5	1.698
507.	7.60	34.02			26.58	154.3	800.	4.49	34.29	27.19	96.8	1.804
608.	5.82	34.03			26.83	130.4	1000.	3.86	34-44	27.38	79.3	1.982
809.	4.47	34.30			27.2C	95.6	1200.	3.32	34.54	27.51	67.6	2.131
1010.	3.84	34.45			27.35	78.7	1500.	2.76	34.58	27.59	59.7	2.324
1211.	3.29	34.54			27.51	67.1						
1511.	2.74	34.58			27.6C	59.6						

CROMWELL ORY BULB		STATION WET BULB		9N LAT, 157 WINO SPEED			1964, 06 R. 19	OO G.C.T. WEATHER OZ	V15.	7 CLOV	TYPE .	COVER
CEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.
0.	25.64	34.92			23.11	477.3	С.	25.64	34.92	23.11	477.3	0.000
11-,	25.70	34.92			23.09	479.5	10.	25.70	34.92	23.09	479.4	0.048
11. 50.	25.60	34.94			23.13	476.7	20.	25.69	34.92	23.09	479.3	0.096
75.△	25.60	34.94			23.13	477.7	30 •	25.67	34.93	23.10	478.8	0.145
102.	23.79	34.98			23.71	423.7	50.	25.60	34.94	23.13	476.7	0.241
127.	22.47	35.11			24.19	378.8	75.	25.60	34.94	23.13	477.7	0.361
153.	20.96	35.08			24.59	341.8	100.	23.95	34.97	23.66	428.5	0.475
178.	19.35	34.98			24.94	309.1	150.	21.14	35.09	24.54	345.7	0.670
193.	18.59	34.89			25.06	297.5	200.	18.20	34.85	25.12	291.6	0.631
226.	16.71	34.69			25.36	269.2	250.	15.36	34.56	25.57	250.1	0.968
253.	15.21	34.54			25.59	248.0	300.	13.30	34.35	25.85	224.1	1.087
279.	14-18	34.43			25.73	235.2	400.	9.68	34.13	26.34	177.1	1.290
305.	13.09	34.33			25.88	221.4	500.	7.06	34.04	26.68	144.8	1.452
405.	9.53	34.12			26.36	175.1	600.	5.53	34.09	26.92	121.9	1.587
507.	6.91	34.04			26.7C	143.0	70C.	4.81	34.21	27.09	105.4	1.702
607.	5.46	34.10			26.93	120.5	.008	4.46	34.33	27.23	93.1	1.802
807.	4.45	34.34			27.24	92.4	1000.	3.90	34.48	27.40	77.5	1.975
1009.	3.8R	34.48			27.41	77.0	1200.	3.31	34.54	27.51	67.3	2.121
1203.	3.30	34.54			27.51	67.2						
1495.	2.80	34.58			27.59	60.3						

Table 1.--Continued

	С	RIGINAL DA	ΤΑ		DERIVE	D DATA	+		INTERPOL	ATED DATA-		
CRCMHELL DRY 8UL8		STATICH WET BUL8		ON LAT, 156- WINO SPEED			1964, 16 R. 18	OO G.C.T. WEATHER 01	vis.	7 CLQUO	TYPE ,	COVER
CEPTH	TEMP.	SAL.	CXY.	P04-P	SICMA-T	DELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN. DPTH
С.	25.62	35.15			23.29	460.1	0.	25.62	35.15	23.29	460.1	0.000
10.	25.66	35.14			23.27	462-4	10.	25.66	35.14	23.27	462.4	0.046
30.△	25.56	35.11			23.27	462.5	20.	25.62	35.12	23.26	463.0	0.093
50.△	25.46	35-11			23.30	460.3	30.	25.56	35.11	23.27	462.5	0.140
75.△	25.46	35.11			23.30	461.3	50.	25.46	35.11	23.30	460.3	0.233
102.	22.56	35.07			24.13	383.2	75.	25.46	35.11	23.30	461.3	0.349
126.	20.84	35.04			24.59	340.6	100.	22.81	35.07	24.06	389.6	0.456
151.	18.91	34.92			25.CC	301.7	150.	16.98	34.93	24.99	303.0	0.630
176.	17.62	34.78			25.22	282.0	200.	16.60	34.69	25.39	266.1	0.774
193.	16.90	34.72			25.34	270.3	250.	13.44	34.34	25.81	225.9	0.R98
226.	15.29	34.54			25.57	248.9	300.	11.72	34.21	26.05	204.2	1.006
252.	13.30	34.33			25.83	224.1	40C.	8.85	34.06	26.43	168.3	1.194
279.	12.39	34.26			25.96	212.4	500.	6.75	34.09	26.76	136.6	1.348
304.	11.59	34.20			26.C6	202.6	£00.	5.66	34.21	26.99	114.8	1.475
405.	8.72	34.06			26.45	166.6	700.	5.06	34.31	27.14	101.1	1.584
506.	6.65	34.10			26.78	134.9	600.	4.68	34.38	27.25	91.9	1.682
607.	5.61	34.22			27.01	113.6	1000.	4.00	34.48	27.39	78.5	1.854
809.	4.66	34.39			27.25	91.3	1200.	3.42	34-54	27.50	68.8	2.003
1009.	3.97	34.48			27.40	78.1	1500.	2.77	34.58	27.59	59.9	2.199
1209.	3.40	34.54			27.5C	68.4						
1510.	2.75	34.58			27.59	59.7						

Table 2.--Original and derived oceanographic data for Townsend Cromwell cruise 9

	0	RIGINAL DA	ΤΑ	+	DERIVE	D DATA	+		INTERPOLA	ATED DATA-		
CRCMWELL CRY 8UL8		STATIEN WET PULB		3N LAT, 157 WING SPEED			1964, 06 R. 19	00 G.C.T. WEATHER 03	VIS. 6	CLOUD	TYPE ,	COVER
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH
C.	26.15	34.94			22.96	491.0	C.	26.15	34.94	22.96	491.0	0.000
9.	26.17	34.94			22.9€	491.9	1C.	26.18	34.94	22.95	492.4	0.050
48.	25.74	34.94			23.05	480.7	20.	26.22	34.93	22.94	494.4	0.099
72.	24.24	35.€2			23.61	432.4	30.	26.15	34.93	22.96	492.8	0.149
96-	23.16	35.09			23.98	397.9	50.	25.62	34.95	23.13	477.0	0.247
119.	22.26	35.1C			24.24	373.5	75.	24.09	35.03	23.66	427.4	0.361
145.	21.04	35.06			24.55	345.0	100.	23.00	35.10	24.02	393.4	0.464
169.	19,60	34.97			24.86	315.7	150.	20.77	35.05	24.61	339.3	0.649
182.	18.62	34.90			25.C6	297.2	200.	17.96	34.84	25.18	285.9	0.806
215.	17.40	34.78			25.27	278.1	250.	14.11	34.41	25.73	234.4	0.937
241.	15.14	34.51			25.58	248.3	300.	11.63	34.26	26.11	198.6	1.046
264.	12.72	34.29			25.92	216.1	400.	8-44	34.14	26.55	156.3	1.226
288.	12.07	34.28			26.C4	205.2	500.	6.94	34.17	26.80	133.6	1.372
379.	8.85	34.15			26.50	161.5	600.	5.68	34.28	27.05	109.8	1.495
472.	7.41	34.15			26.71	141.4	700.	5.11	34.39	27.20	95.6	1.599
565.	5.97	34.24			26.58	116.2	80C.	4.75	34.46	27.30	86.8	1.691
750.	4.98	34.44			27.2€	90.9	1000-	4.05	34.52	27.42	76.2	1.856
933.	4.24	34.50			27.39	79.2	1200.	3.48	34.55	27.50	68.9	2.003
1122.	3.74	34.54			27.47	71.8						
1404.	3.01	34.54			27.54	65.1						

TEMPERATURE ERRER TERM AT 200. METERS IS 0.15

CRCMWELL DRY 8UL8		STATICA WET BULB		ON EAT, 157- WIND SPEED			, 1964, 17 AR. 17	CO G.E.T. WEATHER 02	VIS.	CFOOL	TYPE 8.	COVER 4
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH.
c.	25.55	34.94			23.15	473.2	0.	25.55	34.94	23.15	473.2	0.000
10.	25.58	34.93			23.13	475.2	10.	25.58	34.93	23.13	475.2	0.048
50.4	25.5R	34.93			23.13	476.8	2C.	25.59	34.93	23.13	476.1	0.096
10. 50. 75.	25.58	34.53			23.13	477.8	3C.	25.59	34.93	23.13	476.6	0.144
102.	25.42	34.94			23.15	473.5	50.	25.58	34.93	23.13	476.8	0.240
127.	23.84	35.05			23.75	421.0	75.	25.58	34.93	23.13	477.8	0.360
152.	22.04	35.11			24.31	368.1	100.	25.46	34.94	23.17	474.8	0.480
177.	20.68	35-07			24.65	336.1	150.	22.18	35.11	24.27	371.9	0.693
193.	19.48	34.97			24.89	313.5	200.	18.93	34.91	24.99	304.3	0.864
226.	16.86	34.69			25.33	272.6	250.	14.91	34.48	25.61	245.7	1.002
253.	14.68	34.46			25.64	242.6	300.	11.99	34.26	26.03	205.7	1.116
280.	13.01	34.34			25.90	218.5	400.	7.86	34.15	26.64	147.2	1.294
305.	11.76	34.24			26.66	202.8	500.	6.29	34.24	26.94	119.5	1.429
405.	7.71	34.15			26.67	144.7	60C.	5.52	34.34	27.12	103.2	1.541
506.	6.25	34.25			26.95	118.4	70C •	5.09	34.43	27.23	92.7	1.640
607.	5.48	34.35			27.13	102.3	ECC.	4.82	34.49	27.31	86.1	1.731
808.	4.81	34.49			27.31	85.7	1000.	4.32	34.52	27.39	79.4	1.898
1010.	4.30	34.52			27.35	79.2	1200.	3.70	34.56	27.49	70.7	2.050
1210.	3.67	34.56			27.45	70.2	1500.	2.90	34.59	27.59	60.8	2.250
151C.	2.87	34.59			27.59	60.5						

CROMWELL ORY 8UL8		STATICN NET BULB			6-59W LENG, C 19, C1R.		1964, C2 R. 15	CO G.C.T. WEATHER 02	vi\$.	7 CLOUC	TYPE 8.	COVER 2
DEPTH	TEMP.	SAL.	OXY.	P04~P	SIC#A-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	26.10	34.85			22.91	496.C	С.	26.10	34.85	22.91	496.0	0.000
10.	26.04	34.85			22.93	494.6	lc.	26.04	34.85	22.93	494.6	0.050
30.△	25.90	34.85			22.97	491.2	2C.	25.98	34.85	22.95	493.2	0.100
50.△	25.66	34.87			23.Cé	483.5	30.	25.90	34.85	22.97	491.2	0.149
76.	23.20	35.06			23.94	400-4	5C.	25.66	34.87	23.06	483.5	0.247
101.	22.13	35.13			24.30	367.2	75.	23.30	35.05	23.91	403.9	0.359
126.	21-15	35.15			24.59	340.7	100.	22.16	35.13	24.29	368.0	0.456
152.	20.14	35.09			24.81	320.0	150.	20.22	35.10	24.80	321.4	0.630
177.	19.04	34.97			25.01	302.1	200.	17-02	34.73	25.32	272.4	0.780
191.	17.82	34.83			25.20	283.5	25C.	13.96	34.37	25.72	234.7	0.908
225.	15.09	34.49			25.58	248.3	300.	10.58	34.27	26.30	179.8	1.012
252.	13.88	34.36			25.74	233.5	400.	7.92	34.25	26.72	140.5	1-174
277.	12.38	34.33			26.02	207.1	500.	6.53	34.29	26.94	119.3	1.305
302.	10.42	34.26			26.32	177.6	600.	5.84	34.37	27.09	105.6	1.418
402.	7.92	34.25			26.72	140.4	700.	5.33	34.44	27.21	95.1	1.520
503.	6.50	34.29			26.95	11R.8	£0C.	4.92	34.49	27.30	87.2	1.612
604.	5.82	34.37			27.10	105.2	1000.	4.27	34.53	27.40	78-1	1.779
805.	4.90	34.49			27.3C	86.8	1200.	3.65	34.57	27.50	69.3	1.928
1005.	4.26	34.53			27.41	77.9	1500.	2.93	34.60	27.59	60-4	2.126
1205.	3.64	34.57			27.5C	69.1	2 C C O -	2.15	34.64	27.70	50.3	2.407
1506.	2.92	34.60			27.60	60.3	250C.	1.80	34.67	27.75	45.9	2.652
1951.	2.20	34.64			27.69	51.0	3000.	1.59	34.69	27.77	43.5	2.880
2442.	1.83	34.67			27.74	46.2						
2934.	1.63	34.68			27.71	44.4						
3924.	1.47	34.70			27.79	43.5						

Table 2.--Continued

	C	RIGINAL DA	TA		DERIVE	D DATA	+		-INTERPOL	ATED DATA—		
CROMWELL CRY BULB		STATICN WET BULB			157- IW LONG ED 18. CIR.		1964, 13 R. 14	WEATHER 02	V15. 8	CLOUO	TYPE .	COVER
DEPTH	TEMP.	SAL.	CXY.	P04-P	5 [ GMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN.OPTH
C.	26.32	34.67			22.71	515.5	0.	26.32	34.67	22.71	515.5	0.000
7.	26.28	34.67			22.72	514.6	10.	26.27	34.67	22.72	514.4	0.052
30.△	26.22	34.67			22.74	513.7	20.	26.24	34.67	22.73	513.9	0.104
50.△	26.20	34.68			22.75	513.2	30.	26.22	34.67	22.74	513.7	0.155
71.	25.78	34.91			23.C6	485.0	50.	26.20	34.68	22.75	513.2	0.259
94.	23.85	34.68			23.46	446.7	75.	25.50	34.87	23.11	479.8	0.384
118.	21.85	35.Cl			24.29	369.0	100.	23.35	34.75	23.67	427.6	0.498
142.	19.77	34.93			24.79	321.9	150.	19.24	34.91	24.91	310.6	0.684
166.	17.84	34.79			25.17	286.0	200.	13.28	34.29	25.81	224.9	0.819
179.	15.86	34.55			25.45	259.1	250.	11.34	34.34	26.22	186.9	0.923
209.	12.48	34.24			25.93	213.9	300-	10.81	34.44	26.39	171.2	1.013
234.	11.57	34.29			26.14	194.0	400.	9.48	34.58	26.73	140.5	1.171
258.	11.28	34.36			26.25	184.3	500.	8.32	34.58	26.92	123.7	1.304
281.	11.05	34.4C			26.32	177-8	600.	7.25	34.54	27.04	112.4	1.423
373.	9.82	34.56			26.66	146.9	700.	6.26	34.50	27.14	103.1	1.532
467.	8.69	34.59			26.87	128.2	600-	5.58	34.48	27.22	96.1	1.633
559.	7.70	34.56			26.99	116.9	1000.	4.74	34.52	27.35	84.5	1.815
745.	5.88	34.48			27.18	99.6	1200.	3.97	34.55	27.46	74.3	1.976
930.	5.05	34.51			27.3C	88.6						
1104.	4.31	34.54			27.41	78.7						
1326.	3.54	34.57			27.51	68.8						

CRCMWELL CRY BULB		STATION WET BULB		IN LAT, 157- WIND SPEED			, 1964, 22 AR. 14	00 G.C.T. WEATHER 02	VIS.	8 CLOUC	TYPE 8,	COVER 4
0EP1H	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.
C.	26.93	33.83			21.88	594.4	0.	26.93	33.83	21.88	594-4	0.000
11.	26.82	33.82			21.91	592.2	10.	26.83	33.82	21.90	592.6	0.060
30.△	26.70	34.00			22.08	576.4	20.	26.75	33.89	21.99	585.2	0.119
5C.	26.62	34.10			22.18	567.6	30.	26.70	34.00	22.08	576.4	0.178
77.	25.27	34.62			22.99	491.1	5C.	26.62	34-10	22.18	567.6	0.293
102.	22.33	34.81			24.CE	395.7	75.	25.43	34.58	22.91	498.5	0.427
128.	19.91	34.87			24.71	329.2	100.	22.58	34.80	23.92	403.0	0.541
153.	17.20	34.7C			25.26	277.3	150.	17.57	34.73	25.19	283.4	0.714
178.	13.18	34.33			25-86	219.9	200.	11.97	34.41	26.16	191.6	0.833
193.	12.17	34.37			26.09	198.1	250.	11.08	34.66	26.52	158.1	0.922
226.	11.65	34.58			26.35	174.0	300.	10.32	34.65	26.64	147.3	0.999
253.	11.00	34.67			26.54	156.4	40G+	9.00	34.60	26.83	130.9	1.139
279.	10-45	34.64			26.61	149.7	500.	8.04	34.56	26.94	120.8	1.266
305.	10.30	34.65			26.65	146.9	600.	6.97	34.54	27.08	108.2	1.382
406.	8.91	34.60			26.84	129.8	700.	6.17	34.53	27.18	99.6	1.487
507.	7.98	34.56			26-95	120.2	600.	5.58	34.52	27.25	93.4	1.584
608.	6.88	34.54			27.C9	107.2	1000.	4.67	34.55	27.38	81.7	1.761
809.	5.54	34.52			27.25	92.9	1200.	3.90	34.57	27.48	72.4	1.917
1011.	4.63	34.55			27.38	81.1						
1210.	3.87	34.57			27.48	71.9						
1477.	3.07	34.59			27.57	62.7						

CRCFWELL CRY BULB		STATION WET BULR			7- 2w LENG: 0 21, DIR.		1964, 07 1. 12	CO G.C.T. WEATHER 03	vis.	6 CLOU	TYPE .	COVER
CEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	S1GMA-T	CELTA	CYN-DPTH
0.	27.07	33.64			21.69	612.3	0.	27.07	33.64	21.69	612.3	0.000
1C.	27.08	33.64			21.69	613.0	10.	27.08	33.64	21.69	613.0	0.062
30.△	26.70	33.71			21.86	597.2	20.	27.13	33.62	21.66	616.1	0.124
50.	23.C8	34.53			23.58	434-4	30.	26.70	33.71	21.86	597.2	0.185
76.	21.51	34.88			24.28	367.8	50.	23.08	34.53	23.58	434.4	0.289
102.	19.30	34.80			24.81	318.2	75.	21.54	34.88	24.27	368.8	0.390
127.	15.33	34.46			25.5C	252.7	100.	19.52	34.82	24.77	322.1	0-477
152.	12.CO	34.24			26.C2	203.5	150.	12.22	34.25	25.99	206.7	0.610
177.	10.80	34.28			26.27	179.9	200.	10.76	34.48	26.43	164.9	0.704
192.	10.82	34.43			26.38	169.5	250.	10.15	34.60	26.63	147.0	0.782
226.	10.43	34.57			26.56	153.3	300.	9.90	34.66	26.72	139.4	0.855
253.	10.12	34.60			26.64	146.4	400-	8.67	34.60	26.88	125.6	0.988
278.	10.08	34.65			26.68	142.6	500.	7.49	34.55	27.02	113.4	1.109
304.	9.86	34.66			26.73	138.8	600.	6.6B	34.53	27.11	104.9	1.219
405.	8.60	34.60			26.89	124.9	700 -	5.89	34.53	27.22	95.5	1.320
506.	7.43	34.55			27.02	112.7	800.	5.18	34.54	27.31	86.8	1.412
607.	6.63	34.53			27.12	104.3	1000.	4.28	34.55	27.42	76.7	1.578
808.	5.13	34.54			27.32	86.1	1200.	3.69	34.58	27.50	69.1	1.725
1009.	4.25	34.55			27-42	76.3	1500.	2.87	34.61	27.61	59.0	1.920
1212.	3.66	34.58			27.51	68.6						
1508.	2.85	34.61			27.61	58.7						

TEMPERATURE ERROR TERM AT 20. METERS IS 0.11

Table 2.--Continued

		RIGINAL DA	ΙΔ		DERIVE	D DATA	<b></b>		INTERPOLA	ATED DATA-		
CRCPWELL ORY BULB		STATION WET BULB		SN LAT, 15 WIND SPEE	7- 3W LCNG 0 06, 01R.		1964, 16 R. 11	OO G.C.T. WEATHER 81	V15.	CLOUG	TYPE ,	COVER
OEPTH	TEMP.	5AL.	CXY.	P04-P	51GHA-T	CELTA	DEPTH	TEMP.	SAL .	SIGMA-T	OELTA	OYN.OPTI
2.	27.15	33.71			21.72	609.8	0.	27.15	33.71	21.72	609.7	0.000
12.	27.23	33.80			21.76	606.2	10-	27.22	33.79	21.76	606.4	0.061
20.△	27.23	33.8C			21.76	606.5	2C.	27.23	33.80	21.76	606.5	0.122
30.6	27.22	33.80			21.77	606.6	30.	27.22	33.80	21.77	606.6	0.183
52.	20.76	34.91			24.51	345.2	50.	21.44	34.80	24.24	370.9	0.282
78.	18.84	34.92			25.C2	297.5	75.	18.95	34.97	25.03	296.7	0.366
103.	15.24	34.49			25.55	247.9	100-	15.71	34.55	25.48	253.7	C-435
128.	11-76	34.25			26.07	197.9	150.	10.28	34.17	26-28	178.5	0.544
154.	10.16	34.18			26.3C	175.9	200.	10.40	34.63	26.62	147-4	0.626
178.	10.24	34.49			26.53	154.9	250.	9.94	34.67	26.72	138.2	0.698
193.	10-41	34.61			26.6C	149.3	300-	9.34	34.63	26.80	132.1	0.767
228.	10.15	84.66			26.68	142.0	400.	8.32	34.59	26.93	121-1	0.894
255.	9.89	34.67			26.73	137.5	500 •	7.31	34.55	27.04	110.7	1.011
280.	9.59	34.65			26.77	134.6	600.	6.37	34.54	27.16	99.9	1.116
306.	9.27	34.63			26.8C	131.4	70C.	5.62	34.54	27.26	91.1	1.214
406.	8.26	34.59			26.93	120.5	800.	5.03	34.55	27.34	84.1	1.303
508.	7.23	34.55			27.05	109.9	1000.	4.26	34.57	27.44	75.0	1.464
606.	6-32	34.54			27.17	99.3	1200 -	3.62	34.59	27.52	67.5	1.608
810.	4.98	34.55			27.34	83.5	1500.	2.92	34.62	27.61	58.9	1.800
101C.	4.23	34.57			27.44	74.6	2000-	2.17	34.65	27.70	50.2	2.077
1212.	3.59	34.59			27.52	67.1	2500.	1.87	34.68	27.75	46.3	2.323
1519.	2.88	34.62			27.61	58.4	3000-	1.69	34.69	27.77	44.8	2.555
2012.	2.16	34.65			27.7C	50.1	4 COO.	1.44	34.70	27.80	43.2	3.007
2510.	1.87	34.68			27.75	46.2						
3008.	1.69	34.69			27.77	44.8						
4002.	1-44	34.70			27.80	43.2						

TEMPERATURE ERRCR TERM AT 50. METERS 15 0.18
TEMPERATURE ERRCR TERM AT 75. METERS 15 0.14

CROPWELL CRY BULB		STATICN WET BLLE			3-56W LCNG C 14, CIR.		1964, 12  - 12	00 G.C.T. WEATHER 02	VI5.	8 CLOUC	TYPE ,	COVER
DEPTH	те⊭Р.	SAL.	CXY.	P04-P	51GHA-T	OELTA	CEPTH	TEMP.	SAL.	51GMA-T	OELTA	OYN_OPTH.
0.	27.44	33.56	4.94		21.52	629.4	0.	27.44	33.56	21.52	629.4	0.000
9.	27.46	33.56	5.01		21.51	630.4	10-	27.46	33.56	21.51	630.5	0.063
20.6	27.46	33.56			21.51	630.8	2C.	27.46	33.56	21.51	630.8	0.127
30.△	27.40	33.57			21.54	628.7	30.	27.40	33.57	21.54	628.7	0.190
44.	22.52	35.C8	5.41		24.15	379.2	50.	22.00	35.08	24.30	365.4	0.291
5C.△	22.00	35.C8			24.3C	365.4	75.	18.81	34.85	24.97	302.1	0.375
69.	19.95	34.97	5.15		24.77	320.9	100.	14-14	34.47	25.77	226.5	0.441
89.	16.00	34.56	4.05		25.43	258.7	150.	11.40	34.72	26.50	157.5	0.538
111.	12.70	34.46	1.61		26.05	199.4	200.	10.72	34.73	26.64	145.8	0.614
135.	11.65	34.64	0.61		26.39	167.4	250.	10.09	34.71	26.73	137.9	0.686
157.	11.32	34.74	0.29		26.53	154.7	300.	9.69	34.69	26.78	133.6	0.754
169.	11.08	34.74	0.25		26.58	150.7	400.	8.85	34.65	26.89	125.4	0.885
199.	10.73	34.73	C-41		26.63	146.1	500.	7.76	34.59	27.CC	114.9	1.006
223.	10.38	34.73	0.45		26.69	140.6	600.	6.85	34.55	27.11	105.6	1.118
247.	10.12	34.71	C.53		26.72	138.2	700.	6-1C	34.55	27.20	97.0	1.220
269.	9.90	34.7C	0.55		26.75	135.8	.009	5.48	34.55	27.29	89.7	1.314
36C.	9.28	34.67	0.47		26.83	129.7	1 COC.	4.53	34.56	27.41	78.6	1.485
442.	8.37	34.62	0.33		26.54	120.6	1200 -	3.79	34.59	27.50	69.€	1.635
533.	7.44	34.57	0.41		27.C4	111.9						
72C.	5.97	34.55	C.77		27.22	95.4						
901.	4.96	34.56	1.10		27.35	83.5						
1084.	4.21	34.57	1.30		27.44	75.1						
1363.	3.37	34.61	1.78		27.56	64.1						

CRCPWELL ORY BULB		STATION WET BULB			53-56W LCNG, EO 20, CIR.		i, 1964, 21 IAR. 15	CO G.C.T. WEATHER 02	V15.	8 CEOUC	TYPE 8,	COVER 2
ОЕРТН	TEMP.	SAL-	CXY.	PC4-P	SIGMA-T	CELTA	OEPTH	TEMP.	SAL.	51GMA-T	CELTA	OYN.CPTH
C-	27.20	33.65	4.89		21.66	615.6	0.	27.20	33.65	21.66	615.6	0.000
10.	27-21	33.67	4.61		21.67	614.8	10.	27.21	33.67	21.67	614.8	0.062
20.0	25.60	34.03			22.45	541.0	20.	25.60	34.03	22.45	541.0	0.120
30.△	21.50	34.47			23.97	395.5	30.	21.50	34.47	23.97	395.5	0.167
51.	17.76	34.68	4.55		25.1C	288.4	50.	17.86	34.69	25.08	290-3	0.236
76.	13.26	34.32	3.05		25.83	219.4	75.	13.42	34.34	25.82	221.2	0.301
102.	11.32	34.30	2.24		26.19	185.7	100.	11.4C	34-29	26.17	187-7	0.352
127.	10.62	34.45	1.39		26.43	163.2	150.	10.43	34.57	26.56	151.8	0.438
153.	10-42	34.58	0.72		26.57	150.8	200.	9.88	34.60	26.68	141.5	0.512
178.	10.21	34.62	C-40		26.64	144.9	250.	9.06	34.56	26.78	132.2	0.581
192.	10-04	34.61	C-49		26.66	143.1	300.	8-71	34.59	26.87	125.1	0.646
226.	9.35	34.56	C.50		26.74	136.2	40C -	7.70	34-56	26.99	114-1	0.766
253.	9.03	34.56	0.49		26.79	131.7	500.	6.87	34.54	27.10	105.4	0.877
279.	8.92	34.60	C.48		26.84	127.5	60C.	6.05	34.54	27.20	95.7	0.979
304-	8-66	34.59	C.49		26.87	124.7	700.	5.51	34.55	27.28	89.1	1.072
404.	7.66	34.56	C-71		27.CC	113.7	800.	5.11	34.56	27.34	84.3	1.160
507.	6.82	34.54	C.69		27.1C	104.8	1000.	4.27	34.57	27.44	75.0	1.321
607.	6.00	34.54	C.85		27.21	95.0	1200 -	3.58	34.59	27.52	67.0	1.465
808.	5.08	34.56	(.99		27.34	84.0	1500 -	2.92	34.62	27.61	58.8	1.656
1010.	4.23	34.57	1.38		27.44	74.6	.,,,,,,	2072	2.500		2000	,
1211.	3.55	34.59	1.65		27.53	66.6						
1511.	2.90	34.62	,		27.61	58.6						

Table 2.--Continued

	——С	IRIGINAL DA	ΓΑ	+	DERIVE	DATA-	-1		-INTERPOLA	TED DATA—		
CRCMWELL DRY BULR		STATIEN WET BULB		ON LAT. 154- WINC SPEED			6, 1964, 06 8AR. 15	OO G.C.T. WEATHER OI	VI5. 8	CLOUD	TYPE ,	COVER
DEPTH	TEMP.	SAL.	CXY.	PE4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH
C.	26.88	33.67	5.11		21.78	604.4	0.	26.88	33.67	21.78	604.4	0.000
lC.	26.84	33.66	5.18		21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061
30.△	26.74	33.66			21.81	602.0	20.	26.82	33.65	21.78	604.6	0.122
50.△	26.22	33.76			22.05	580.0	30.	26.74	33.66	21.81	602.0	0.183
74.	22.88	34.66	5.59		23.73	420.4	50.	26.22	33.76	22.05	580.0	0.302
98.	20.86	34.90	5.23		24.48	350.2	75.	22.76	34.68	23.77	416.4	0.427
122.	18.67	34.85	4.68		25.01	300.0	100.	20.71	34.91	24.52	345.9	0.523
148.	14.29	34.37	3.91		25.66	238.2	150.	13.98	34.35	25.71	233.7	0.669
171.	11.62	34.27	2.93		26.11	194.9	200.	11.19	34.56	26.42	166.7	0.770
187.	11.38	34.45	1.49		26.3C	177.8	250.	10.55	34.68	26.63	147.7	0.849
220.	10.91	34.66	0.48		26.55	154.8	300.	9.85	34.65	26.72	139.4	0.922
245.	10.60	34.68			26.62	148.5	400.	8.81	34.62	26.87	127.0	1.056
271.	10.32	34.68	0.29		26.67	144.3	500.	7.65	34.55	26.99	116.0	1.179
296.	9.90	34.65	C.29		26.72	140.0	60C-	6.70	34.53	27.11	105.3	1.290
394.	8.88	34.62	0.40		26.86	127.7	700.	5.92	34.53	27.21	95.8	1.392
494.	7.71	34.55	0.53		26.58	116.7	e00.	5-30	34.54	27.30	88.2	1.485
591.	6.78	34.53	0.68		27.1C	106.2		4.48	34.55	27.40	78.8	1.654
789.	5.36	34.54	C.65		27.29	88.8	1200.	3.77	34.58	27.50	69.7	1.805
986.	4.53	34.55	0.99		27.35	79.6						
1173.	3.85	34.59	1.91		27.5C	69.9	)					
1447.	3.09	34.61	1.50		27.59	61.2	2					

CRCFWELL DRY BUL8		STATIEN MET BULB			4- 5W LENG, D 16, EIR.		1964, 15 R. 15	00 G.C.T. WEATHER 02	VI5.	CLOUG	TYPE ,	COVER
DEPTH	TEMP.	SAL.	CXY.	P04-P	5 I GMA-T	CELTA	0EP7H	TEMP.	SAL.	SIGMA-T	DELTA	OYN. DPTH.
1.	26.48	34.56			22.57	528.3	0.	26.48	34.56	22.57	528.2	0.000
10.	26.46	34.57	4.66		22.59	527.3	10.	26.46	34.57	22.59	527.3	0.053
3 € ⊅	26.40	34.56			22.£C	527.0	20.	26.43	34.57	22.59	527.2	0.106
5 C →	26.32	34.57			22.63	524.7	30.	26.4C	34.56	22.60	527.0	0.159
74.	24.78	34.72	4.94		23.22	469.5	50.	26.32	34.57	22.63	524.7	0.265
99.	22.77	34.94	4.80		23.97	398.1	75.	24.70	34.73	23.25	466.5	0.390
124.	21.46	35.08			24.45	353.8	100-	22.72	34.95	24.00	396.1	0.499
150.	19.34	35.CO	4.95		24.95	306.4	150.	19.34	35.00	24.95	306.4	0.676
173.	17.29	34.73	5.23		25.26	277.8	200.	14.65	34.46	25.65	240.6	0.814
188.	15.95	34.59	4.21		25.46	258.4	250.	10.76	34.20	26.21	186-8	0.921
222.	12.42	34.26	3.91		25.95	211.6	300.	9.28	34.20	26.47	162.8	1.010
248.	10-84	34.20	3.54		26.20	188.0	400.	7.84	34.40	26.84	128.4	1.157
273.	10.02	34.19	3.25		26.34	175.4	500.	7.05	34.48	27.03	112.2	1.278
298.	9.32	34.20	2.81		26.46	163.7	600.	6.20	34.49	27.15	101.3	1.386
396.	7.88	34.39	0.92		26.83	129.3	700.	5.53	34.51	27.24	92.5	1.484
494.	7.10	34.48	0.56		27.62	113.0	800.	5.01	34.52	27.32	85.8	1.574
590.	6.28	34.49	0.61		27.14	102.2	1000.	4.28	34.55	27.42	76.4	1.738
784.	5.CP	34.52	C.84		27.31	86.7	1200.	3.62	34.58	27.51	68.4	1.885
978.	4.36	34.55	0.98		27.41	77.4						
1173.	3.69	34.57	1.25		27.5C	69.4						
1467.	2.90	34.60	1.64		27.6C	59.8						

CROMWELL ORY BULB		STATIEN WET BULB		ON LAT, 154- WING SPEED			1964, 00 R. 15	000 G.E.T. WEATHER 01	VI5. 7	CLOUD	TYPE 8.	COVER 4
DEPTH	TEMP.	SAL.	EXY.	PE4-P	SIGMA-T	CELTA	OEP1H	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.
C.	26.22	34.59	4.72		22.68	518.3	0.	26.22	34.59	22.68	518.3	0.000
10.	26.12	34.60	4.86		22.72	515.0	10.	26.12	34.60	22.72	515.0	0.052
10. 30. 50.	25.80	34.6C			22.82	506.3	20.	25.96	34.60	22.77	510.5	0.104
5C- <sup>△</sup>	25.62	34.59			22.86	502.4	30.	25.8C	34.60	22.82	506.3	0.155
79.	23.99	34.54	5.01		23.32	460.1	50.	25.62	34.59	22.86	502.4	0.257
101.	22.16	34.84	5.15		24.07	388.9	75.	24.29	34.53	23.22	469.0	0.379
126.	21.24	35.07	4.88		24.5C	348.8	100.	22.24	34.82	24.04	392.1	0.487
152.	19.19	34.9C	4.38		24.92	310.0	150.	19.39	34.92	24.88	313.1	0.665
177.	16.16	34.57	4.01		25.4C	264.1	200.	13.96	34.35	25.71	234.6	0.803
191.	14.91	34.43	3.83		25.57	247.9	250.	10.25	34.19	26.29	179.0	0.907
225.	11.56	34.19	3.67		26.€€	201.0	300.	9.35	34.37	26.59	152.0	0.991
252.	10.18	34.19	2.24		26.31	177.6	400.	7.80	34.43	26.87	125.5	1.131
279.	9.40	34.22	2.58		26.46	163.2	500.	6.94	34.47	27.03	111.6	1.250
303.	9.36	34.39	1.30		26.60	150.5	€OC.	6.07	34.47	27.15	100.9	1.358
403.	7.74	34.42	0.68		26.88	125.2	700.	5.44	34.49	27.24	92.8	1.456
503.	6.92	34.47	0.40		27.03	111.3	800.	4.97	34.51	27.31	86.3	1.546
603.	6.04	34.47	0.53		27.15	100.7	t C00 •	4.16	34.53	27.42	76.6	1.711
805.	4.95	34.51	0.78		27.31	86.0	1200.	3.53	34.57	27.51	67.8	1.857
1005.	4.14	34.53	1.04		27.42	76.4	1500.	2.87	34.60	27.60	59.7	2.051
1205.	3.52	34.57	1.28		27.51	67.6						
1505.	2.86	34.60	1.64		27.6C	59.6						

Table 2.--Continued

_	<del></del> 0	RIGINAL DA	ΓΑ		DERIVE	D DATA			INTERPOLA	ATED DATA-		
CRCMWELL ORY 8UL8		STATION WET BULB		N LAT, 153 WING SPEED			1964, C9 R. 18	CO G.C.7. WEATHER 02	¥15.	CLOUG	TYPE .	COVER
OEPTH	TEMP.	5AL.	CXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	26.06	34.45	4.77		22.62	523.6	C	26.06	34.45	22.62	523.6	0.000
10.	26.08	34.44	4.78		22.61	525.3	10.	26.08	34.44	22.61	525.3	0.053
30.0	26.00	34.46			22.65	522.3	2C.	26.06	34.44	22.61	525.0	0.106
50+A	25.70	34.55			22.81	507.7	3C.	26.0C	34.46	22.65	522.3	0.158
75.△	23.60	34.97			23.76	418.0	50.	25.70	34.55	22.81	507.7	0.262
100.	22.50	35.07	5.10		24.15	381.4	75.	23.60	34.97	23.76	418.0	0.379
126.	21-04	35.05	4.72		24.54	345.0	100.	22.5C	35.07	24.15	381.4	0.480
151.	19.90	35.00	4.54		24.81	320.4	150.	19.95	35.00	24.80	321.3	0.657
175.	18.52	34.84	4.27		25.04	298.9	200-	16.56	34.61	25.34	270.7	0.806
201.	16.47	34.60	4.03		25.35	269.6	250 .	12.06	34.22	25.99	208.5	0.927
225.	14.39	34.38	3.76		25.64	241.7	30C.	10.40	34.26	26.33	177.1	1.024
250.	12.06	34.22	3.61		25.95	208.5	4CC.	8.66	34.43	26.75	138.2	1.183
275.	10.81	34.21	3.32		26.21	187.4	50C.	7.62	34.47	26.94	121.3	1.314
299.	10.42	34.26	2.77		26.32	177.5	600.	6.69	34.48	27.07	108.7	1.430
397.	8.70	34.43	0.87		26.74	138.9	700.	5.87	34.49	27.19	98.1	1.534
495.	7.67	34.47	0.56		26.93	122.0	80C.	5.20	34.50	27.28	89.8	1.629
593.	6.75	34.48	0.53		27.C6	109.5	1000.	4.33	34.52	27.39	79.3	1.801
788.	5.27	34.50	C.73		27.27	90.6	1200.	3.67	34.55	27.48	70.8	1.952
983.	4.39	34.52	1.14		27.38	80.C						
1181.	3.75	34.55	1.25		27.48	71.7						
1402.	3.15	34.58	1.97		27.56	63.9						

CRCMWELL ORY 8UL8		STATION WET BULB			3-58W LCNG		1964, 18 1. 18	CO G.C.T. WEATHER 02	V15.	8 CLOUD	TYPE 5,	COVER 9
OEPTH	TE⊮P.	SAL.	CXY.	PC 4 - P	SIGMA-T	DELTA	DEPTH	TEMP.	5AL.	SIGMA+T	DELTA	OYN.OPTH.
C.	25.84	34.45	5.28		22.65	517.0	0 -	25.84	34.45	22.69	517.0	0.000
10.	26.12	34.45	4.84		22.6C	525.8	10-	26.12	34.45	22.60	525.8	0.053
30.△	26.04	34.45			22.63	524.2	20.	26.14	34-44	22.59	527.4	0.106
50.△	25.8C	34.58			22.80	508.5	3C.	26.04	34.45	22.63	524.2	0.159
77.	23.83	35.10	5.38		23.79	415.2	50.	25.80	34.58	22.80	508.5	0.263
106.	22.74	35.20	5.18		24.18	378.8	75.	23.99	35.06	23.71	422.5	0.380
127.	21.24	35.17	5.18		24.58	341.6	100.	22.97	35.21	24.12	384.5	0.481
153.	19.94	34.97	4.60		24.77	323.6	150.	20.08	35.00	24.76	325.2	0.660
178.	18.46	34.86	4.39		25.C7	296.1	200.	16.82	34.71	25.35	269.7	0.810
192.	17.6P	34.81	4.52		25.22	281.7	25C ·	12.44	34.23	25.92	215.1	0.932
227.	13.79	34.33	4.13		25.73	233.2	3CC.	10.27	34.17	26.27	182.0	1.033
254.	12.27	34.22	4.46		25.95	212.5	400.	7.80	34.15	26.66	146.0	1.198
280.	11.20	34.18	3.64		26.12	196.5	500.	6.33	34.24	26.93	120.0	1.332
294.	10.50	34.17	3.29		26.24	185.4	600 -	5.74	34.35	27.10	105.4	1.446
405.	7.74	34.15	2.44		26.67	145.1	70C.	5.26	34.43	27.21	94.7	1.547
506.	6.27	34.25	1.30		26.95	118.7	800.	4.83	34.48	27.30	86.8	1.639
607.	5.72	34.36	0.88		27.1C	104.6	1000.	4.14	34.51	27.40	77.9	1.806
809.	4.79	34.48	0.90		27.31	86.2	1200.	3.54	34.57	27.51	68.1	1.954
1011.	4.11	34.51	1.03		27.41	77.6	15CC.	2.93	34.59	27.59	61.1	2.150
1211.	3.51	34.57	1.25		27.52	67.6						
1511.	2.91	34.59	1.64		27.55	60.9						

TEMPERATURE ERRCH TERM AT 200. METERS 15 0.15

CRCMWELL ORY BULB		STATICN MET BULB		WINC SPEED			1964, 03 R. 17	CO G.C.T. WEATHER OI	V15. 8	CLOUD	TYPE 8.	COVER 1
GEPTH	TEMP.	SAL.	CXY.	PC4-P	5IGMA-T	EELTA	CEPTH	TEMP.	5AL.	51GMA-T	DELTA	OYN.OPTH
C.	26.04	34.87	4.91		22.54	492.7	0.	26.04	34.87	22.94	492.7	0.000
9.	26.04	34.87	4.80		22.54	493.1	10.	26.03	34.87	22.95	493.0	0.050
30.△	25.86	34.86			22.99	489.3	2 C .	25.96	34.86	22.97	491.5	0.099
5C. △	25.72	34.86			23.04	486.0	3C.	25.86	34.86	22.99	489.3	0.149
3C. A 5C. A 75. A	24.20	34.85			23.45	443.6	50.	25.72	34.86	23.04	486.0	0.247
97.	22.58	34.86	5-12		23.97	398.7	75.	24.2C	34.85	23.49	443.6	C.364
120.	21.05	34.92	5.85		24.44	354.5	100.	22.37	34.87	24.03	392.6	0.469
145.	19.45	34.91	4.36		24.86	315.5	150.	19.25	34.91	24.91	310.4	0.646
169.	18.42	34.88	4.45		25.09	293.4	200.	16.09	34.58	25.42	262.6	0.791
182.	17.47	34.76	4.26		25.24	28C-1	250 -	12.94	34.27	25.86	221.7	0.913
215.	15-02	34.45	3.85		25.5€	249.4	300.	10.55	34.15	26.21	187.9	1.016
240.	13.67	34.34	4.22		25.76	230.4	400.	8.11	34.15	26.61	150.3	1.187
264.	11.97	34.18	4.14		25.98	210.1	500.	6.65	34.24	26.89	124.5	1.326
288.	10-58	34.16	3.69		26.15	194.3	600.	5.16	34.26	27.09	104.6	1.441
381.	8.39	34.13	2.91		26.55	155.9	70C.	4.77	34.37	27.23	92.6	1.541
474.	7.16	34.24	1.30		26.82	131.2	£00.	4.60	34.47	27.32	84.7	1.630
566.	5.42	34.23	0.98		27.04	109.9	1coc.	3.95	34.52	27.43	74.6	1.792
75C.	4.78	34.44	C.76		27.2E	88.4	1200.	3.40	34.56	27.52	66.9	1.935
935.	4.14	34.51	0.99		27.4C	77.3						
1119.	3.63	34.54	1.18		27.48	70.5						
1374.	3.00	34.58	1.63		27.57	61.9						

TEMPERATURE ERROR TERM AT 700. METERS IS 0-12

AFROM ST OATA

Table 2.--Continued

	(	ORIGINAL DA	ΤΔ	+	DERIVE	D DATA-			-INTERPOL	ATED DATA—		
CROMWELL DRY BULB		STATION WET BULB		2N LAT. 153- WINO SPEED			8, 1964, 13 BAR. 19	CO G.C.T. WEATHER 02	vis.	CLOUD	TYPE ,	COVER
DEPTH	TEMP.	5AL.	£XY.	P04~P	SIGMA-T	OELTA	DEPTH	TEMP.	SAL.	51GMA-T	OELTA	DYN.OPTH.
C o	25-14	35.09	4.88		23.39	450.4	0.	25.14	35.09	23.39	450-4	0.000
9.	25.15	35.09	4.96		23.38	451.0	1C.	25.15	35.09	23.39	451.0	0.045
3€.△	25.06	35.10			23.42	448.5	5 20.	25.11	35.10	23.40	449.9	0.091
5 C .△	25.04	35.10			23.43	448.8	30.	25.06	35.10	23.42	448.5	0.136
75.4	24.70	35.11			23.54	439.2	2 50.	25.04	35.10	23.43	448.8	0.226
92.	22.98	35.19	5.31		24.10	385.6	75.	24.70	35.11	23.54	439.2	0.338
100.4	22.80	35.19			24.16	381.0	100.	22.80	35.19	24.16	381.0	0.442
114.	22.46	35.20	5.10		24.26	371.5	5 150.	21.64	35.29	24.56	344.6	0.624
137.	21.95	35.26	4.94		24.45	354 - 3	3 200.	20.74	35.24	24.77	326.1	0.793
159.	21.45	35.3C	4.78		24.62	339.0	250.	17.53	34.80	25.25	280.8	0.946
173.	21.26	35.31	4.76		24.68	333.1	300.	13.64	34.38	25.80	228.3	1.075
204-	20.60	35.22	4.66		24.79	324-2	2 400-	9.37	34.09	26-37	174.6	1.278
227.	18.99	35.01	4.59		25.05	299.7	7 500.	7.24	34.10	26.70	143.2	1.438
252.	17.39	34.78	4.53		25.27	279.1	600.	5.99	34.20	26.94	119.8	1.571
274.	15.43	34.56	4.58		25.56	251-9	700.	5.30	34.33	27-13	102-8	1.684
366.	10.47	34.14	4.66		26.22	188.6	.009	4.80	34.41	27.26	91.1	1.782
458.	8.03	34.08	3.34		26.57	155.5	1000.	4.04	34.50	27.41	77.3	1.952
550.	6.49	34.14	1.70		26.83	130-4	1200.	3.49	34.55	27.50	68.6	2.100
735.	5.15	34.37	0.77		27.18	98.1	1					
921.	4.28	34.47	1.08		27.36	81.8	9					
1093.	3.81	34.53	1.21		27.45	73.2	2					
1300.	3.28	34.56	1.40		27.53	66.2	2					

CRCPWELL ORY BULB		STATION WET BULB		BN LAT, 154- WINO SPEED			8, 1964, 21 BAR. 22	CO G.E.T. WEATHER 02	V15. 8	CLOUO	TYPE 8.	COVER 4
OEPTH	TEMP.	SAL.	CXY.	P04-P	51GMA-T	CELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH
C.	25.34	35.05	4.91		23.30	459.1	0.	25.34	35.05	23.30	459.1	0.000
10-	25.33	35.05	4.84		23.30	459.2	10-	25.33	35.05	23.30	459.2	0.046
30. <sup>\(\Delta\)</sup>	25.33	35.05			23.3C	460.0	20.	25.33	35.05	23.30	459.6	0.093
50.4	25.33	35.05			23.30	460.8	30.	25.33	35.05	23.30	460.0	0.139
75.6	24.70	35.07			23.51	442.1	50.	25.33	35.05	23.30	460.8	0.232
101.	22.24	35.16	4.86		24.29	368.0	75.	24.70	35.07	23.51	442.1	0.345
125.	21.35	35.18	4.88		24.55	343.7	100.	22.34	35-16	24.26	370.8	0.448
153.	20.15	35.07	4.59		24.79	321.7	150.	20.30	35.09	24.77	324.1	0.623
177.	18.71	34.94	4.48		25.07	296.3	200.	17.58	34.81	25.25	279.5	0.775
192.	18.06	34.87	4.41		25.18	286.3	250.	14.18	34.42	25.72	235.3	0.905
226.	15.82	34.60	4.46		25.5C	256.0	300 -	11.60	34-19	26.02	207-3	1-016
253.	14.00	34.40	4.92		25.74	233.0	400-	9.17	34.08	26.39	172.2	1.208
279.	13.17	34.36	4.88		25.88	220.1	500.	6.84	34-02	26.69	143.2	1.367
303.	11.59	34.16	4.94		26.03	205.5		5.48	34.11	26.94	119.9	1.500
405.	9.13	34.09	4.72		26.41	170.9		4.77	34.24	27-12	102.5	1.612
506-	6.71	34.02	2.91		26.71	141-7	600-	4.38	34.36	27.26	89.8	1.710
606.	5.43	34.12	1.33		26.95	118.7	1000.	3.90	34.50	27.42	76.0	1.877
807.	4.36	34.37	C.67		27.27	89.1	1200.	3.37	34.55	27.52	66.9	2.022
1008.	3.89	34.50	1.12		27-42	75.6						
1169.	3.41	34.54	1.39		27.5C	68.2						
1382.	2.93	34.57	1.01		27.57	61.8						

CRCMWELL DRY BULB		STATION WET BULB		ON LAT, 151- WIND SPEED			9, 1964, 13 Bar. 21	00 G.C.T. WEATHER 02	V15. 8	ELOUO	TYPE ,	COVER
OEPTH	TEMP.	SAL.	EXY.	PC4-P	51GMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGNA-T	DELTA	DYN.OPTH
0.	24.34	35.32			23.8C	410.8	0.	24.34	35.32	23.80	410.8	0.000
11.	24-34	35.33			23.81	410.5	10.	24.34	35.33	23.81	410.5	0.041
30.6	24.34	35.32			23.80	412.0	20.	24.34	35.33	23.81	411-1	0.083
50.△	24.34	35.32			23.8C	412.8	30.	24.34	35.32	23.80	412.0	0.124
74.	21.99	35.26			24.44	353.0	50.	24.34	35.32	23.80	412.8	0.207
98.	20.98	35.27			24.72	326.6	75.	21.93	35.26	24.45	351.4	0.304
122.	20.48	35.24			24.84	316.7	100.	20.93	35.27	24.74	325.5	0.389
146.	19.98	35.23			24.96	305.6	150.	19.87	35.22	24.98	303.9	0.547
170.	19.03	35.08			25.09	293.7	200.	17.01	34.75	25.34	271.1	0.692
184.	18.08	34.91			25.2C	283-6		13.78	34.38	25.77	230.0	0.819
217.	15.89	34.60			25.48	257.2		11.49	34.23	26.10	198.9	0.927
243.	14.16	34.41			25.72	235.3	400.	0.81	34.07	26.44	166.9	1.111
267.	12.93	34.32			25.90	218.1	500.	6.62	34.05	26.74	138.1	1.265
290.	11.85	34.25			26.05	203.4	600-	5.35	34-16	26.99	114.8	1.393
385.	9.20	34.09			26.39	171.6		4.76	34.28	27-15	99.6	1.501
482.	6.94	34.04			26.69	143.0		4.48	34.39	27.27	89.3	1.597
578.	5.53	34.13			26.95	118.9		3.96	34.50	27.42	76.1	1.764
77C.	4.58	34.36			27.24	92.1	1200.	3.46	34.56	27.52	67.3	1.909
962.	4-06	34.49			27.40	78.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
1148-	3.58	34.54			27.48	70.1						
1423.	2.94	34.58			27.58	61.5						

Table 2.--Continued

		RIGINAL DA	TA-		DERIVE	D DATA	-		INTERPOLA	ATED DATA-		
CROMWELL ORY BULB		STATION WET BULE		ON LAT. 151- WIND SPEED			1964, 22 R. 21	CO G.C.T. WEATHER 01	VIS.	CLOUD	TYPE 8.	COVER 4
OEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OP7H
C.	25.58	34.93			23.13	474.8	0.	25.58	34.93	23.13	474.8	0.000
10.,	25.51	34.93			23.15	473.1	10.	25.51	34.93	23.15	473.1	0.048
30.	25.51	34.93			23.15	473.9	20.	25.50	34.93	23.16	473.2	0.095
50.△	25.51	34.93			23.15	474.7	30.	25.51	34.93	23.15	473.9	0.143
77.	23.31	35.17			23.99	395.6	50.	25.51	34.93	23.15	474.7	0.239
102.	22.04	35.19			24.37	360.5	75.	23.50	35.15	23.92	402.2	0.349
127.	21.33	35.24			24.61	338.9	100.	22.12	35.19	24.35	362.4	0.445
153.	20.51	35.22			24.81	320.0	150.	20.62	35.23	24.79	322.2	0.618
177.	19.20	35-04			25.02	301.0	200.	18.28	34.92	25.16	288.3	0.772
193.	18.75	34.99			25.1C	294.2	250.	14.50	34.42	25.65	241.9	0.905
226.	16.18	34.61			25.43	263.2	300.	11.89	34.16	25.98	210.8	1.020
254.	14.24	34.39			25.68	238.7	400 -	8.34	34.08	26.52	159.4	1.206
279.	12.81	34.24			25.86	221.9	500.	6.30	34.06	26.79	133.2	1.354
304.	11-73	34.15			26.00	208.8	600.	5.13	34.18	27.03	110.4	1.477
404.	8.23	34.08			26.54	157.6	700.	4.60	34.30	27.19	96.3	1.582
507.	6.20	34.06			26.81	131.8	- 00s	4.38	34 - 39	27.29	87.5	1.674
607.	5.07	34.19			27.05	109.0	1000.	3.86	34.51	27.43	74.8	1.839
808.	4.37	34.40			27.29	87.0	1200.	3.35	34.55	27.52	67.0	1.982
1010.	3.84	34.51			27.43	74 - 3						
1202.	3.34	34.55			27.52	66.9						
1437.	2.81	34.58			27.59	60.0						

CRC⊭WELL ORY BUL8		STATICH WET BULE			C-59W LCNG, C 18, DIR.		1964. 08 1. 19	CO G.C.T. WEATHER 02	VIS.	7 CLOUC	TYPE .	COVER
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH
1.	25.86	34.84			22.98	489.6	C.	25-86	34.84	22.98	489.6	C.COO
11.	25.84	34.84			22.58	489.4	10.	25.84	34.84	22.98	489.4	0.049
30.△	25.82	34.84			22.99	489.6	20.	25.83	34.84	22.99	489.4	0.099
50.△	25.80	34.84			23.00	489.8	30.	25-82	34.84	22.99	489.6	0-148
74.	24.51	34.90			23.43	448.8	50.	25.80	34.84	23.00	489.8	0.247
98.	23.14	35.07			23.97	398.9	75.	24.45	34.91	23.46	446.5	0.364
122.	22.48	35.13			24.20	377.4	100.	23.08	35.08	23.99	396.8	0.471
147.	21.47	35.26			24.58	341.9	150.	21.33	35.25	24.61	339.1	0.656
171.	20-32	35.14			24.8C	321.6	200.	18.96	35.01	25.06	298.0	0.817
185.	19.65	35.10			24.95	308.1	250.	15.39	34.52	25.54	252.9	0.956
218.	17.96	34.86			25.19	285.5	300.	11.83	34.18	26.01	208.2	1.072
244.	15.83	34.58			25.48	258.2	400-	8.51	34.11	26.52	159.8	1.257
269.	14.03	34.37			25.71	236.3	50C •	6.94	34-23	26.84	129.1	1.403
293.	12.22	34.21			25.95	213.2	600.	6.01	34.33	27.05	110.4	1.524
391.	8.71	34.10			26.48	163.2	700.	5.43	34.41	27.18	98.1	1.630
489.	7.07	34.22			26.82	131.7	E00.	5.01	34-47	27.27	89.8	1.725
586.	6.11	34.32			27.02	112.5	1000.	4.22	34.51	27.40	78.6	1.895
782.	5.09	34.46			27.26	91.2	1200.	3.62	34.55	27.49	70.6	2.046
979.	4.29	34.51			27.35	79.5						
1169.	3.74	34.54			27.47	72.2						
1428.	3.09	34.57			27.56	64.0						

CROMWELL ORY BULB		STATION WET BULB			50-58W LCNG, EC 20, CIR.		1964, 17 . 17	CO G.C.T. WEATHER 21	V15. 7	CLOUG	TYPE 8.	COVER 7
OEPTH	TEMP.	5AL.	CXY.	P04-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGNA-T	CELTA	DYN-OPTH
0.	25.51	34.72			23.00	487.9	0.	25.51	34.72	23.00	487.9	0.000
11.	25.54	34.72			22.55	489.2	10.	25.54	34.72	22.99	489.1	0.049
30.△	25.54	34.72			22.99	489.9	20.	25.55	34.72	22.98	489.7	0.098
50.△	25.52	34.72			22.99	490.1	30.	25.54	34.72	22.99	489.9	0.148
75.△	25.50	34.72			23.00	490.6	50.	25.52	34.72	22.99	490.1	0.247
103.	22.89	35.07			24.04	392.2	75.	25.50	34.72	23.00	490.6	0.370
129.	21.86	35.22			24.44	354.5	100.	23.20	35.03	23.92	403.6	0.483
154.	21.05	35.24			24-68	332-6	150.	21.17	35.24	24.65	335.5	0.669
181.	20.15	35.18			24.88	214.8	200.	19.34	35.07	25.01	303.1	0.830
212.	18.61	34.96			25.11	293.6	250 •	14.75	34.44	25.61	245.6	0.968
231.	16.83	34.71			25.35	270.6	300.	11.75	34.19	26.03	206.1	1.082
258.	13.95	34.34			25.71	236.5	400.	9.33	34.39	26.61	151.9	1.263
284.	12.58	34.23			25.90	218.4	500.	7.75	34.40	26.86	128.4	1.404
309.	11.32	34.18			26.10	199.4	€00.	6.52	34.38	27.02	113.8	1.526
412.	9.22	34.43			26.66	147.4	700.	5.72	34-41	27.14	102.3	1.636
512.	7.58	34.39			26.00	126.8	.003	5.17	34.45	27.24	93.1	1.734
614.	6.38	34.38			27.04	112.1	1000.	4.39	34.52	27.38	80.5	1.910
817.	5.10	34.46			27.26	91.7	1200 .	3.77	34.56	27.48	71.6	2.064
1016.	4.34	34.52			27.39	79.7	1500.	2.97	34.59	27.58	61.7	2.267
1218-	3.72	34.56			27.49	70.9						
1519.	2.93	34.59			27.59	61.2						

Table 2.--Continued

	0	RIGINAL DAT	ΆΑ		DERIVE	D DATA	+		INTERPOLA	TED DATA-		
CROFWELL ORY SULS		STATION WET BULE		N LAT, 150 WIND SPEE	0-57W LCNG		1964, 02 R. 15	OO G.C.T. WEATHER 03	VI5. 8	CLOUD	TYPE 9,	COVER 5
DEPTH	TEMP.	SAL.	DXY.	PC4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN. DPTH
C.	25.94	34.65			22.81	505.6	0.	25.94	34.65	22.81	505.6	0.000
11.	25.77	34.65			22.26	501.0	10.	25.78	34.65	22.86	501.4	0.051
50. <sup>△</sup>	25.56	34.70			22.96	492.8	20.	25.70	34.65	22.89	498.8	0.101
78.	25.38	34.78			23.08	482.8	30.	25.63	34.67	22.92	496.6	0.151
98.	23.27	34.68			23.63	430.6	50.	25.56	34-70	22.96	492.8	0.251
127.	21.88	35.CO			24.27	370.8	75.	25.48	34.78	23.05	485.8	0.374
154.	20.02	34.84			24.65	335.1	100.	23.15	34.70	23.68	425.9	0.489
179.	17.61	34.63			25.10	292.7	150.	20.34	34.88	24.60	340.1	0-682
194.	16.50	34.59			25.34	270.7	200.	15.96	34.54	25.42	262.9	0.834
228.	13.41	34.29			25.78	228.6	250.	11.65	34.24	26.08	199.9	0.951
254.	11.41	34.24			26.13	195.3	300.	10.69	34.49	26.45	165.2	1.043
280.	11.05	34.38			26.3C	179.2	400.	8.90	34.49	26.75	138.0	1.196
306.	10.57	34.52			26.50	161-1	500.	7.95	34.49	26.90	124.9	1.328
406.	8.81	34.47			26.75	137.8	600.	6.80	34.46	27.04	111.6	1.448
508.	7.89	34.49			26.91	124.0	700.	5.97	34.46	27.15	101.7	1.556
609.	6.70	34.46			27.06	110.5	eco.	5.40	34.48	27.24	94.1	1.655
811-	5.35	34.48			27.24	93.4	1000.	4.56	34.51	27.36	83.2	1.834
1012.	4.52	34.51			27.36	82.7	1200.	3.81	34.55	27.47	72.8	1.992
1212.	3.77	34.55			27.47	72.2	1500.	3.03	34.59	27.58	62.4	2.198
1514.	3.00	34.59			27.50	62.1	2000.	2.20	34.64	27.69	51.3	2.487
2011-	2.19	34.64			27.69	51.2	250C.	1.83	34.67	27.74	46.5	2.736
2511.	1.83	34.67			27.74	46.4	3000.	1.63	34.69	27.77	43.8	2.966
2909.	1.66	34.69			27.77	44.1	4000.	1.48	34.70	27.79	43.9	3.416
4007.	1.48	34.70			27.79	43.9						
4999.	1.44	34.71			27.8C	45.0						

CROPWELL DRY 8UL8		STATICA WET BUL8			1- 2W LCNG. D 02, CIR.			CO G.C.T. WEATHER 01	VI5.	CLOU	TYPE .	COVER
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPTH
0.	26.09	34.22			22.44	541.0	0.	26.09	34.22	22.44	541.0	0.000
9.	26.08	34.22			22.44	541.1	10.	26.07	34.22	22.45	540.7	0.054
30.△	25.78	34.28			22.58	528.7	20.	25.95	34.24	22.50	535.9	0.109
50.△	25.42	34.36			22.75	513.1	3C.	25.78	34.28	22.58	528.7	0.162
67.	23.80	34.75			23.53	439.2	50.	25.42	34.36	22.75	513.1	0.267
67. 75.	22.70	34.96			24.01	393.9	75.	22.70	34.96	24.01	393.9	0.382
91.	21.86	35.06			24.32	364.6	100.	21.32	35.09	24.50	348.4	0.475
113.	20.39	35.08			24.74	325.7	150.	16.30	34.60	25.39	264.2	0.629
135.	18.26	34.85			25.11	290.6	200.	11.89	34.54	26.27	180.9	0.742
156.	15.4R	34.50			25.5C	253.8	250.	11.05	34.70	26.55	154.9	0.826
170.	13.72	34.32			25.74	231.0	300.	10.51	34.70	26.65	147.0	0.902
199.	11.92	34.53			26.26	181.9	400.	9.43	34.65	26.79	134.6	1.044
223.	11.48	34.68			26.46	163.5	500.	8.27	34.58	26.93	122.7	1.174
245.	11.12	34.70			26.54	156.2	600.	7.31	34.54	27.03	113.5	1.294
267.	10.82	34.70			26.59	151.4	700.	6.47	34.51	27.13	105.0	1.404
352.	10.06	34.68			26.71	141.7	E00.	5.83	34.51	27.21	97.4	1.506
439.	8.91	34.62			26.86	129.0	1000.	4.77	34.53	27.35	84.1	1.690
526.	8.02	34.57			26.95	120.4	1200.	3.93	34.55	27.46	73.8	1.850
699.	6.48	34.51			27.12	105.1						
875.	5.42	34.52			27.27	92.1						
1054.	4.52	34.54			27.39	80.9						
1332.	3.50	34.57			27.52	68.4						

CRC™WELL DRY 8UL®		STATICK WET BULB		N LAT, 151 WIND SPEEC			1964, 20 R. 17	00 G.C.T. WEATHER 03	V15. 7	CLEUO	TYPE 6,	COVER 6
DEPTH	TEMP.	SAL.	CXY.	PC4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH
C-	26-50	33.95			22.11	572.7	0.	26.50	33.95	22.11	572.7	0.000
10.	26.42	33.95			22.13	570.7	10.	26.42	33.95	22.13	570.7	0.058
30.∆ 50.∆	26.40	33.95			22-14	570.9	20.	26-40	33.95	22.14	570.6	0.115
50.△	26.30	33.95			22.17	568.7	30.	26.40	33.95	22.14	570.9	0.173
76.	18.63	34.43			24.70	327.9	50.	26.30	33.95	22.17	568.7	0.287
101.	13.77	34.37			25.77	226.4	75.	18.98	34.41	24.60	337.6	0.402
127.	11.65	34.28			26.12	193.7	100.	13.91	34.38	25.74	228.7	0.473
152.	10.71	34.40			26.38	168.9	150.	10.75	34.39	26.36	170.6	0.573
177.	10.37	34.47			26.49	158.6	200.	10.33	34.57	26.58	150.8	0.654
192.	10.38	34.56			26.56	152.4	250.	9.43	34.51	26-69	141.4	0.728
226.	9.97	34.55			26.63	147.0	300.	8.80	34.52	26.80	131.7	0.797
253.	9.36	34.51			26.70	140.6	400 .	7.65	34.49	26.95	118.6	0.923
279.	9.05	34.53			26.76	134.7	500-	6.78	34.50	27.07	107.2	1.037
304.	8.75	34.52			26.80	131.3	600.	6.00	34.50	27.18	97.9	1.141
405.	7.60	34.49			26.95	118.0	700.	5.44	34.51	27.25	91.2	1.236
507.	6.73	34.50			27.08	106.5	800.	5.01	34.52	27.31	86.0	1.326
607.	5.95	34.50			27.19	97.3	1000.	4.24	34.54	27.42	76.9	1.491
808.	4.98	34.52			27.32	85.6	1200.	3.55	34.58	27.52	67.4	1.637
1010.	4.20	34.54			27.42	76.5	1500.	2.86	34.61	27.61	58.9	1.829
1210.	3.52	34.58			27.52	66.9						_
1512.	2.84	34.61			27.61	58.6						

Table 2. -- Continued

	C	RIGINAL DA	TA	+	DERIVE	D DATA-	+		INTERPOL	ATED DATA-		
CROMMELL ORY BULB		STATIEN WET BULB		9N LAT, 150 WINC SPEED			, 1964, 06 AR. 16	OO G.C.T. WEATHER 02	V15.	CLOU	TVPE ,	COVER
OEPIH	TEMP.	SAL.	EXY.	PE4-P	516MA-T	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OVN.OPTH
c.	26.47	34.14			22.26	558.2	0.	26.47	34.14	22.26	558.2	0.000
10.	26.39	34.29			22.4€	545.4	10.	26.39	34.29	22.40	545.4	0.056
30. △	26.26	34.37			22.5€	536.5	20.	26.34	34.34	22.45	540.7	0.110
50.	25.81	34.57			22.79	509.5	30.	26.26	34.37	22.50	536.5	0.165
75.	21.01	34.72			24.30	366.2	50.	25.81	34.57	22.79	509.5	0.270
99.	17.95	34.79			25.14	286.4	75.	21-01	34.72	24.30	366.2	0.380
124.	15.10	34.46			25.55	247.7	100.	17.84	34.78	25.16	284.6	0.462
148.	11.96	34.28			26.06	199.8	150.	11.77	34.27	26.08	197.2	0.584
172.	10.59	34.30			26-32	174.7	200.	10.82	34.63	26.54	155.1	0.672
186.	10.72	34.52			26.47	161.0	250.	10.39	34.69	26.66	144.5	0.748
219.	10.82	34.68			26.58	151.8	300.	9.59	34.65	26.76	135.3	0.818
245.	10.46	34.69			26.65	145.4	400.	8-14	34.57	26.93	120.2	0.947
271.	10.08	34.67			26.70	141.0	500.	7.15	34.54	27.06	109.3	1.063
295.	9.67	34.65			26.75	136.2	600.	6.30	34.54	27.17	99.0	1.168
393.	8.22	34.57			26.92	121.1	700.	5.62	34.54	27.26	91.3	1.265
492.	7.22	34.54			27.65	110.2	ECC.	5.08	34.54	27.32	85 + 2	1.354
591.	6.37	34.54			27.16	99.8	1000.	4.26	34.56	27.43	75.5	1.516
787.	5.14	34.54			27.32	86.0	1200.	3.64	34.59	27.52	67.7	1.662
984.	4.32	34.56			27.42	76.2						
1180.	3.71	34.59			27.51	68.3						
1478.	3.02	34.61			27.59	60.6						

CRCMWELL ORV BULB		STATICH WET BULB			0-54W LENG. 0 12, C1R.		1964, 16	CO G.E.T. WEATHER 01	VIS.	8 CLOUO	IYPE ,	COVER
DEPTH	TEMP.	SAL.	EXY.	PE4-P	SIGMA-I	CELTA	CEPTH	TEPP.	SAL.	SIGMA-T	CELTA	DYN.OPTH
0.	26.89	33.65			21.76	606-1	0.	26.89	33.65	21.76	606.1	0.000
10.,	26.84	33.66			21.78	604.3	10.	26.84	33.66	21.78	604.3	0.061
10-6 20-6	26.80	33.68			21.81	£C2.0	20.	26.80	33.68	21-81	602.0	0.122
30.	26.60	33.71			21.90	594.2	30.	26.60	33.71	21.90	594.2	0.182
50.0	20.50	34.13			23.99	394.9	50.	20.50	34.13	23.99	394.9	0.282
77.	13.62	34.34			25.78	225.0	75.	14.02	34.33	25.69	233.4	0.361
102.	11-44	34.37			26.22	182.7	100.	11.51	34.37	26.21	184.0	0.413
127.	11.17	34.54			26.41	166.0	150.	11.03	34.66	26.52	155.4	0.499
153.	11.01	34.67			26.54	154.3	200.	10.46	34.72	26.67	142.5	0.574
178.	10.66	34.70			26.62	146.6	250.	10.09	34.70	26.72	138.7	0.645
193.	10.57	34.72			26.65	143.9	30C.	9.40	34.66	26.81	131.0	0.713
226.	10.09	34.69			26.71	138.7	400-	8.60	34.62	26.91	123.2	0.841
254.	10.09	34.70			26.72	138.6	500.	7.61	34.56	27.01	114.3	0.961
280.	9.63	34.67			26.78	133.8	600.	6.70	34.55	27.13	103.7	1.071
305-	9.35	34.66			26.82	130.5	70€.	5.98	34.55	27.22	95.5	1.172
406-	8.56	34.62			26.91	122.9	.008	5.41	34.55	27.29	88.9	1.265
508.	7.53	34.56			27.02	113.5	1000.	4.45	34.56	27.41	78.1	1.434
609.	6.62	34.55			27.14	102.8	1200.	3.80	34.58	27.49	70.3	1.584
810.	5.36	34.55			27.30	88.4	1500.	3.05	34.61	27.59	61.2	1.784
1011.	4.41	34.56			27.41	77.6	2600.	2.28	34.65	27.69	51.6	2.071
1213.	3.76	34.58			27.50	69.9	2500.	1.90	34.67	27.74	47.4	2.323
1511.	3.03	34.61			27.59	60.9	3E00.	1.73	34.68	27.76	46.1	2.561
2010-	2.27	34.65			27.69	51.4	4EOC.	1.46	34.70	27.79	43.6	3.021
2509.	1.90	34.67			27.74	47.3						
3006.	1.73	34.68			27.76	46.1						
4003.	1.46	34.70			27.75	43.6						

CROMWELL ORY 8UL8		STATIEN WET BULB			8- 2W LENG. 0 12, DIR.		1964, 11 R. 15	CO G.C.T. WEATHER OI	VI5.	ELOUD	TYPE ,	CCVER
OEPTH	TEMP.	SAL.	EXY.	P04-P	SICMA-I	CELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	CYN-OPTH-
€.	26.58	33.14	4.92		21.47	633.5	€.	26.58	33.14	21.47	633.5	0.600
9.	26.61	33.14	4.69		21.46	634.7	10-	26.44	33.18	21.55	626.7	0.063
30.℃	21.70	34.25			23.75	416.6	20.	24.41	33.67	22.54	532.6	0.122
48.	18.34	34.66	4.29		24.95	303.4	30.	21.70	34.25	23.75	416-6	C.170
72.	13.75	34.36	2.91		25.76	226.0	5C.	17.90	34.64	25.04	294.2	0.241
96.	12.29	34.55	0.83		26.20	184.7	75.	13.46	34.37	25.83	219.5	0.306
118.	11.72	34.69	0.39		26.42	164.6	100.	12.16	34.58	26.25	180.2	0.356
142.	11.11	34.74	0.27		26.57	150.6	150.	10.97	34-74	26.60	148.5	C.439
165.	10-77	34.73	0-42		26.63	146.0	200.	10.43	34.73	26.69	140.8	0.512
179.	10.62	34.73	0.43		26.65	143.7	250.	9.95	34.71	26.76	135.1	0.582
211.	10.33	34.73	0.40		26.70	139.5	300.	9.52	34.69	26.81	130.6	0.649
236.	10.09	34.72	€.36		26.74	136-7	40C.	8.94	34.66	26.88	125.5	0.778
259.	9.86	34.71	0.43		26.77	134.1	500.	8.27	34.63	26.96	119.5	0.902
283.	9.64	34.70	0.56		26.80	131.8	600.	7.47	34.59	27.05	112.2	1.019
377.	9.08	34.67	0.59		26.87	126.8	700.	6.57	34.56	27.15	102.8	1.127
471.	8.47	34.64	C.79		26-94	121.2	-308	5.81	34.55	27.24	94.3	1.227
564.	7.80	34.60	C.47		27.01	115.5	1000.	4.80	34.57	27.38	82.0	1.405
753.	6.11	34.55	0.58		27.2C	97.7	1200.	3.99	34.58	27.48	72.5	1.562
942.	5-07	34.56	C.99		27.34	85.3						
1132.	4.25	34.58	1.33		27.45	75.3						
1377.	3.44	34.59	1.68		27.54	66.5						

TEMPERATURE ERRER TERM AT 2C. METERS 15 0.33 SALINITY ERROR TERM AT 2C. METERS 15 0.69

Table 2.--Continued

	——	RIGINAL DA	TA	+	DERIVE	D DATA-	+		INTERPOLA	TED DATA		
CROMWELL ORY BULB		STATION WET BULB		BN LAT, 147- WIND SPEED			1964, 20 AR. 16	00 G.C.T. WEATHER 02	VI5. 8	CLOUD	TYPE 8.	COVER 3
CEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	OELTA	OEPTH	IEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	26.81	33.31	4.70		21.53	628.2	0.	26.81	33.31	21.53	628.2	0.000
10.	26.81	33.31	4.79		21.53	628.6	10.	26.81	33.31	21.53	628.6	0.063
20. △	26.74	33.31			21.55	626.8	20.	26.74	33.31	21.55	626.8	0.127
30. △	24.60	33.30			22.2C	565.0	30.	24.60	33.30	22.20	565.0	0.187
51.	16.85	33.43	3.55		24.37	358.6	50.	17.22	33.41	24.27	368.1	0.281
77.	12.99	34.55	C.87		26.C7	197.4	75.	13.12	34.46	25.97	206.4	0.353
102.	11.99	34.75	0.27		26.42	164.7	100.	12.01	34.75	26.41	164.8	0.400
126.	11.53	34.77	0.27		26.52	155.5	150.	11-18	34.76	26.58	150.4	0.479
153.	11.14	34.76	0.30		26.58	149.9	200.	10-60	34.73	26.65	144.1	0.553
178.	10.89	34.75	0.40		26.62	146.9	250.	10.18	34.72	26.72	138.4	0.624
193-	10.68	34.73	0.53		26.64	145.1	300.	9.78	34.71	26.78	133.7	0.693
226.	10.37	34.73	0.59		26.70	140.5	400.	9.17	34.67	26.85	128.5	0.825
254.	10.15	34.72	0.58		26.73	138.1	500.	8.25	34.62	26.96	119.6	0.951
279.	9.94	34.71	0.47		26.76	135.9	600·	7.26	34.57	27.07	110.0	1.067
304.	9.75	34.71	0.49		26-79	133.3	700.	6.41	34.55	27.17	100.9	1.173
405.	9.14	34.67	0.34		26.86	128.3	800.	5.71	34.55	27.25	92.9	1.271
506.	8.19	34.62	0.44		26.97	119.0	1 COO.	4.78	34.56	27.37	82.2	1-446
607.	7.19	34.57	0.42		27.07	109.4	1200.	4.10	34.58	27.46	74.1	1.607
808.	5.66	34.55	0.84		27.26	92.3	1500.	3.29	34.61	27.57	64.2	1.817
1010.	4.74	34.56	1.00		27.38	81.8						
1211.	4.07	34.58	1.33		27-47	73.7						
1511.	3.27	34.61	1.68		27.57	63.9						

CROMWELL		STATION		8N LAT, 147								
DRY BULB	26.1	WET BULE	23.7	WIND SPEED	19, CIR.	07 BA	R. 16	WEATHER 02	VI 5.	7 CLOUD	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	OELTA	0EP7H	TEMP.	SAL.	SIGMA-T	OEL74	0YN.0PTH
0.	26.55	33.66	4.87		21.87	595.1	0.	26.55	33.66	21.87	595.1	0.000
10.	26.57	33.66	4.84		21.87	596.1	10-	26.57	33.66	21.87	596.1	0.060
20.	26.50	33.66			21.89	594.4	20.	26.50	33.66	21.89	594.4	0.120
20. ∆ 30. △	26.00	33.77			22.13	571.9	30.	26.00	33.77	22-13	571.9	0.179
50.	19.69	34.60	4.74		24.56	340.6	50.	19.69	34.60	24.56	340.6	0.271
77.	15.23	34.45	3.90		25.52	249.8	75.	15.46	34.49	25.49	252.1	0.345
100.	12.16	34.33	2.04		26.C6	198.6	100.	12.16	34.33	26.06	198.6	0.402
124.	11.58	34.57	0.57		26.35	171.0	150.	11.36	34.73	26.52	156.0	0.491
150.	11.36	34.73	0.35		26.52	156.0	200.	10.59	34.71	26.64	145.4	0.567
174.	10.91	34.72	0.37		26.59	149.3	250.	10.02	34.69	26.73	138.1	0.639
189.	10.72	34.71	0.28		26.62	147.1	300.	9.41	34.65	26.80	132.1	0.707
222.	10.33	34.70	0.26		26.68	141.9	400.	8.54	34.62	26.91	122.5	0.835
248.	10.04	34.69	0.33		26.72	138.4	500 -	7.74	34-59	27.01	114-4	0.955
274.	9.76	34.68	0.32		26.76	135.0	600.	6.83	34.56	27.12	104.9	1.066
298.	9.43	34.65	C.36		26.79	132.3	700.	6.09	34.54	27.20	97.2	1.168
396.	8.57	34.62	0.33		26.91	122.8	800.	5.51	34.54	27.27	90.9	1.263
496.	7.78	34.59	0.41		27.C1	114.8	1000-	4.73	34.56	27.38	81.5	1.437
595.	6.87	34.56	C.58		27.11	105.3	1200.	3.96	34.58	27.48	72.4	1.593
793.	5.54	34.54*	0.79		27.27	91.3						
993.	4.76	34.56	1.06		27.38	81.9						
1190.	3.98	34.58	2.23		27.48	72.4						
1380.	3.34	34.59	1.82		27.55	65.3						

CROMWELL DRY BULB		STATION WET BULK			7-58W LONG 0 20, C1R.		1964, 14 R. 16	00 G.C.T. WEATHER 02	V15.	8 CLOUD	TYPE ,	COVER
DEPTH	TENP.	SAL.	nxy.	P04-P	5 I GMA-T	OELTA	OEPTH	TEMP.	SAL.	51GHA-7	DELTA	OYN.OPTH
1.	26.36	33.7R	4.86		22.02	580.8	0.	26.36	33.78	22.02	580.8	0.000
11.	26.37	33.78	4.91		22.02	581.5	10.	26.37	33.78	22.02	581.5	0.059
30.0	26.26	33.78			22.06	579.0	20.	26.53	33.74	21.94	589.5	0.118
52.	22.00	34.52	4.84		23.87	405.9	30.	26.26	33.78	22.06	579.0	0.176
78.	18.45	34.68	4.60		24.93	305.5	50.	22.46	34.45	23.69	423.3	0.277
103.	14.88	34.38	3.29		25.54	248.3	75.	18.82	34.69	24.85	313.4	0.370
128.	12.22	34.20	3.50		25.95	209.9	100.	15.29	34.42	25.48	253.6	0.442
154.	10.86	34.27	2.47		26.25	181.1	150.	11.00	34.25	26.21	185.0	0.552
179.	10.34	34.41	1.54		26.45	162.5	200.	10.23	34.52	26.56	152.7	0.637
174.	10.30	34.51	1.00		26.54	154.8	250.	9.94	34.63	26.69	141.6	0.711
228.	9.91	34.55	0.65		26.64	146.1	300.	9.30	34.61	26.78	133.4	0.781
255.	9.95	34.64	0.30		26.70	140.7	400.	8.29	34.57	26.91	122.2	0.910
273.*	9.80*	34.64	0.28		26.72	138.6	500.	7.32	34.54	27.03	112.0	1.028
281.	9.65	34.63	0.33		26.74	137.0	600.	6.43	34.53	27.15	101.6	1.136
306.	9.19	34.60	U.37		26.79	132.3	700.	5.72	34.51	27.22	94.6	1.235
406.	8.25	14.57	0.39		26.92	121.8	800.	5.13	34.52	27.30	87.6	1.327
508.	7.23	34.54	0.41		27.05	110-6	1 COO.	4.34	34.55	27.41	77.5	1.494
516.*	7.13	34.55	0.53		27.07	108.6	1200.	3.70	34.58	27.50	69.0	1.642
608.	0.39	34.52	0.58		27.15	101.6						
811.	5.07	34.52	0.83		27.31	86.8						
1012.	4.30	34.55	1.08		27.42	77.0						
1200.**	3.70kk	34.58kk			27.50	69.0						

TEMPERATURE EPROR TERM AT 20. METERS IS 0.13

∆FROM 8T DATA \*INTERPOLATED DATA \*\*EXTRAPDLATED DATA

Table 2.--Continued

_	——с	RIGINAL DA	TA	+	DERIVE	ED DATA	+		INTERPOL	ATED DATA-	_	
CROMWELL ORY BULB		STATION WET BULB		ON LAT, 147 WIND SPEED				OO G.C.T. WEATHER OZ	VIS.	a CLOU	TYPE de	COVER 4
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	OELTA	0EPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.
0.	26.29	33.84	4.82		22.09	574.4	0.	26.29	33.84	22.09	574.4	0.000
9.	26.25	33.84	4.84		22.10	573.5	10.	26.25	33.84	22.10	573.5	0.058
20.	26.23	33.84			22.11	573.4	20.	26.23	33.84	22.11	573.4	0.116
30.△	26.20	33.85			22.13	572.1	30.	26.20	33.85	22.13	572.1	0.173
50.	23.80	34.28			23.19	472.4	50.	23.80	34.29	23.18	472.4	0.278
71.	20.27	34.72	5.12		24.50	347.1	75.	19.58	34.70	24.66	331.3	0.380
93.	16.66	34.48	3.96		25.21	279.2	100.	15.69	34.42	25.39	262.7	0.455
117.	13.77	34.31	3.18		25.72	231.3	150.	11.89	34.32	26.10	145.6	0.570
141-	12-27	34.30	1.94		26.01	203.8	200.	11.12	34.62	26.47	161.2	0.660
164.	11.49	34.40	1.74		26.24	182.9	250.	9.44	34.42	26.62	148-2	0.738
176.	11.33	34.54	0.83		26.38	170.0	300.	9.39	34.55	26.72	138.9	0.910
207.	11.00	34.60	0.74		26-48	160.5	400.	8.11	34.50	26.89	124.8	0.743
232.	9.97	34.48	0.88		26-57	152.3	500.	6.90	34.45	27.02	112.7	1.063
255.	9.35	34.42	1.11		26.63	147.1	600.	6.07	34.47	27.14	101.2	1.171
278.	9.50	34.52	0.44		26.68	142.6	700.	5.44	34.49	27.24	92.3	L. 269
372.	8.49	34.52	0.32		26.84	128.5	300.	4.96	34.52	27.32	85.3	1.359
466.	7.25	34.45	0.40		26.97	116.9	1000.	4.25	34.54	27.42	17.0	1.523
605.	6.04	34-47	0.52		27.15	100.7	1200.	3.57	34.57	27.51	68.3	1.670
804.	4.94	34.52	0.79		27.32	85.1	1500.	2.88	34.00	27.60	59.9	1.365
1005.	4.23	34.54	0.98		27.42	76.8						
1204.	3.56	34.57	1.24		27.51	68.1						
1506.	2.87	34.60	1.58		27.60	59.7						

CROMWELL DRY BULB		STATION WET BULB			8- 3W LONG: D 26. DIR.		1964, 09	00 G.C.T. WEATHER 02	v15.	CLON	IYPE ,	COVER
DEPTH	TEMP.	SAL.	OXY.	P04-P	S1GMA-T	OELTA	DEPTH	TEMP.	SAL.	51GMA-I	DELIA	DYN. DPTH
1.	25.71	34.29	4.77		22.61	524.8	0.	25.71	34.29	22.61	524.7	0.000
8.	25.75	34.29	4.82		22.60	526.2	10.	25.74	34.29	22.60	526.3	0.053
20.	25.60	34.29			22.64	522.3	20.	25.60	34.29	22.64	522.3	0.106
30 - △	25.30	34.36			22.79	508.8	30.	25.30	34.36	22.79	503.8	0.158
50. <sup>△</sup>	25.28	34.37			22.80	508.3	50.	25.28	34.37	22.80	508.3	0.200
75.△	23.70	34.80			23.60	433.1	75.	23.70	34-80	23.60	433.1	0.379
99.	22.54	35.05	5.05		24.12	383.9	100.	22.49	35.06	24.14	362.1	0.481
123.	21.38	35.11	4.89		24.49	349.5	150.	19.76	35.03	24.87	314.6	0.657
148.	19.99	35.06	4.66		24.83	318.2	200.	15.04	34.46	25.56	249.0	0.799
172.	17.24	34.69	4-14		25.24	279.6	250.	10.83	34.17	26.18	190.3	0.910
186.	16.34	34.60	4.18		25.38	266.2	300.	9.42	34.28	26.51	159.6	0.998
219.	13.16	34.27	3.92		25.81	224.9	400.	8.47	34.48	26.32	131.5	1.145
245.	11.11	34.17	3.75		26.13	194.9	500.	7.23	34.46	26.98	116.5	1.270
270.	10.00	34.19	3.23		26.34	175.0	600.	6.40	34.46	27.10	106.0	1.382
294.	9.50	34.26	2.27		26.48	162.1	700.	5.73	34.48	27.20	97.0	1.485
391.	8.59	34.48	0.88		26.80	133.4	800.	5.20	34.50	27.29	89.4	1.579
489.	7.34	34.46	0.84		26.97	117.8	1000.	4.41	34.54	27.40	78.9	1.750
585.	6.51	34.46	0.75		27.08	107.5	1200.	3.78	34.56	27.48	71.3	1.902
780.	5.29	34.50	0.63		27.27	90.8						
975.	4.50	34.54	0.86		27.39	79.9						
1171.	3.87	34.55	1.10		27.46	73.1						
1467.	3.16	34.59	1.48		27.57	63.7						

CROMWELL ORY BULB		STATION WET BULB			7-59W LONG:		1964. 18 R. 18	00 G.C.T. WEATHER 02	V15.	8 CLOUE	TYPE 8,	COVER 7
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	OEL TA	DEPTH	TEMP.	SAL.	>1GMA-T	DELTA	OYN. DETH.
0.	24.92	35.02	5.03		23.40	449.0	0.	24.92	35.02	23.40	449.0	0.000
10. A	24.87	35.02	4.98		23.42	448.0	10.	24.87	35.02	23.42	448.0	0.045
30. A	24.80	35.02			23-44	446-8	20.	24.84	35.02	23.43	447.4	0.090
50. "	24.68	35.03			23.49	443.4	30.	24.90	35.02	23.44	446.8	0.135
77.	23.12	35.13	5.30		24.02	393.2	50.	24.68	35.03	23.48	443.4	0.225
102.	21.85	35.20	5.23		24.43	354.7	75.	23.26	35.12	23.97	397.6	0.331
125.	21.15	35.26	5.01		24.67	332.7	100.	21.94	35.19	24.40	357.3	0.426
154.	20.23	35.16	4.78		24.84	317.3	150.	20.37	35.18	24.82	319.2	0.596
178.	19.17	35.07	4.57		25.05	298.1	200.	17.99	34.88	25.20	284.4	0.749
192.	18.47	34.96	4.66		25.14	289.5	250.	14.30	34.37	25.66	241-1	0.981
226.	16.19	34.59	4.55		25.41	264.8	300.	10.72	34.08	26.13	195.8	0.941
254.	13.98	34.34	4.66		25.70	237.0	400.	7.28	34.03	26-64	147.2	1.164
279.	12.08	34.16	4.59		25.94	214.0	500.	6.45	34.23	26.91	122.3	1.300
304.	10.48	34.07	4.24		26.16	192.6	600.	5.77	34.36	27.10	105.0	1.415
405.	7.21	34.04	2.77		26.66	145.7	700-	5.26	34.44	27.22	94.0	1.516
507.	6.44	34.25	0.99		26.92	121.0	800.	4.87	34.49	27.30	66.7	1.607
608.	5.72	34.37	0.66		27.11	103-9	1000.	4.15	34.53	27.47	76.0	1.772
810.	4.84	34.49	0.72		27.31	86.1	1200.	3.58	34.56	27.50	69.1	1.920
1010.	4.12	34.53	0.90		27.42	76.2	1500.	2.83	34.59	27.60	59.9	2.116
1210.	3.55	34.56	1.14		27.50	68.8						
1512.	2.80	34.59	1.54		27.60	59.6						

Table 2.--Continued

		RIGINAL DA	TA		DERIVE	D DATA-	1		INTERPOLA	TED DATA-		
CROMWELL DRY BULB		STATION WET BULB		9N EAT, 147 WIND SPEED			1964, 03 R. 17	WEATHER 03	VI5. 6	CLOUN	TYPE 8,	COVER 7
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ודקיו. מצם
1.	24.50	35.03	4.94		23.54	436.3	0.	24.50	35.03	23.54	436.2	0.000
10.	24.54	35.02	4.94		23.52	438.5	10.	24.54	35.02	23.52	438.5	0.044
30-4	24.48	35.03			23.54	436.9	20.	24.53	35.02	23.52	438.6	0.088
50.4 75.4	24.26	35.07			23.64	428.5	30.	24.48	35.03	23.54	436.9	0.132
75.4	23.90	35.09			23.76	417.8	50.	24.26	35.07	23.64	428.5	0.219
94.	22.96	35.13	5.22		24.06	389.5	75.	23.90	35.09	23.76	417.8	0.326
117.	21.74	35.09	5.23		24.38	360.2	100-	22.63	35.12	24.15	381.4	0.427
142.	20.77	35.15	4.94		24.69	331.4	150.	20.58	35.17	24.76	325.2	0.605
164.	20.09	35.15	4.86		24.87	314.8	200.	17.18	34.71	25.26	27R.0	0.757
178.	19.05	34.97	4.43		25.00	302.4	250.	12.77	34.23	25.86	221.3	0.883
210.	16.26	34.59	4.34		25.39	265.9	300.	10.37	34.12	26.22	186.7	0.986
234.	13.92	34.32	3.65		25.70	236.7	400.	7.66	34.07	26.67	149.5	1.155
258.	12.29	34.20	3.72		25.93	214.4	500.	6.01	34.14	26.90	123.0	1.293
281.	11.10	34.15	4.28		26.12	197.0	600.	5.55	34.29	27.07	107.2	1.409
375.	8.31	34.08	3.44		26.53	158.3	700-	5.12	34.39	27.20	96.0	1.512
469.	6.28	34.10	1.86		26.83	129.4	800.	4.74	34.45	27.29	88.1	1.605
563.	5.73	34.25	0.91		27.02	112.3	1000.	4.02	34.51	27.42	76.5	1.771
752.	4.92	34.42	0.76		27.25	91.7	1200.	3.42	34.55	27.51	67.7	1.917
926.	4.30	34.49	1.00		27.37	80.6						
1046.	3.86	34.52	1.87		27.44	74.1						
1252.	3.29	34.56	1.28		27.53	66.0						

CROMWELL DRY 8ULB		STATION WET BULB			7-59W LDNG, D 16, DIR.		1964, 13 R. 19	DO G.C.T. WEATHER 02	V15.	CLOU	TYPE .	COVER
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN. DPTH
0.	24.79	34.96	4.80		23.40	449.6	0.	24.79	34.96	23.40	449.6	0.000
8.	24.80	34.96	4.88		23.39	450.2	10.	24.78	34.97	23.40	449.4	0.045
42.	24.14	35.05	4.95		23.66	426.2	20.	24.64	34.99	23.46	444.0	0.090
64.	23.60	35.04	5.07		23.81	412.6	30.	24.45	35.02	23.54	436.9	0.135
84.	22.66	35.20	5.17		24.20	375.8	50.	23.98	35.04	23.70	422.8	0.221
105.	21.82	35.23	5.06		24.46	351.8	75.	23.10	35.13	24.02	392.9	0.324
127.	20.98	35.23	4.86		24.69	330.5	100.	22.01	35.23	24.41	356.7	0.418
149.	20.40	35.19	4.69		24.82	319.3	150.	20.36	35.19	24.83	318.5	0.589
161.	19.91	35.15	4.68		24.92	310.1	200.	18.00	34.86	25.18	285.9	0.741
188.	18.69	34.96	4.59		25.09	294.7	250.	14.79	34.42	25.59	247.7	0.875
212.	17.28	34.76	4.53		25.28	276.7	300.	11.88	34.15	25.97	211.3	0.991
234.	15.98	34.59	4.46		25.46	260.4	400.	8.17	34.05	26.52	159.1	1.178
254.	14.49	34.38	4.50		25.62	244.5	500.	6.36	34.09	26.81	131.5	1.325
339.	10.24	34.10	3.87		26.23	187.1	600.	5.30	34.22	27.05	109.3	1.445
426.	7.53	34.05	2.90		26.62	149.8	700.	5.01	34.37	27.19	96.1	1.550
488.	6.53	34.08	2.08		26.78	134.5	800.	4.60	34.45	27.30	86.2	1.642
605.	5.26	34.23	0.82		27.06	108.4	1000.	3.89	34.52	27.43	74.4	1.805
726.	4.98	34.40	0.68		27.22	93.6	1200.	3.34	34.56	27.52	66.2	1.947
830.	4.44	34.46	0.79		27.33	83.6						
1018.	3.85	34.52	1.15		27.44	73.8						
1200.**	3.34*				27.52	66.2						

CROMWELL DRY BUL8		STATION WET BULB		IN LAT, 148 WIND SPEED			1964, 22 3. 21	OO G.C.T. WEATHER DI	V15.	s crono	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPIH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH
1.	24.74	35.06	4.94		23.49	441.0	0.	24.74	35.06	23.49	441.0	0.000
10.	24.75	35.06	4.98		23.48	441.7	10.	24.75	35.06	23.48	441.7	0.044
10. 30.	24.68	35.06			23.50	440.4	20.	24.72	35.06	23.49	441.3	0.089
50.	24.62	35.07			23.53	438.8	30.	24.68	35.06	23.50	440.4	0.133
50.∆ 75.	24.00	35.11			23.75	419.2	50.	24.62	35.07	23.53	438.8	0.222
100.	22.15	35.24	5.14		24.38	359.7	75.	24.00	35.11	23.75	419.2	0.330
124.	21.36	35.26	5.04		24.61	338.2	100.	22.15	35.24	24.38	359.7	0.428
150.	20.67	35.25	5.01		24.79	321.9	150.	20.67	35.25	24.79	321.9	0.600
173.	19.80	35.16	4.86		24.96	307.1	200.	17.88	34.85	25.20	284.1	0.753
188.	18.59	34.95	4.72		25.11	293.0	250.	14.96	34.49	25.61	246.2	0.886
221.	16.79	34.71	4.61		25.36	269.4	300.	11.95	34.19	25.99	209.7	1.001
247.	15.22	34.52	4.74		25.57	249.5	400.	8.63	34.05	26.45	166.1	1.191
272.	13.14	34.29	4.80		25.83	224.5	500.	6.51	34.03	26.74	138.0	1.344
297.	12.07	34.20	4.91		25.97	211.3	600.	5.21	34.12	26.98	115.8	1.473
396.	8.74	34.05	4.34		26.44	167.5	700.	4.68	34.26	27-14	100.3	1.582
496.	6.58	34.03	2.54		26.73	139.0	800.	4.49	34.39	27.27	89.3	1.678
593.	5.26	34.11	1.23		26.96	117.1	1000.	4.01	34.50	27.41	76.8	1.846
792.	4.51	34.38	0.77		27.26	90.0	1200.	3.52	34.56	27.50	68.5	1.993
990.	4.04	34.50	1.08		27.41	77.3						
1188.	3.53	34.54	1.26		27.49	69.8						
1484.	2.84	34.58	1.67		27.59	60.7						

AFRON BT DATA
\*\*EXTRAPOLATED DATA

Table 2.--Continued

		RIGINAL DA	TAATA		DERIVE	D DATA-	<del> </del>		INTERPOL	ATED DATA-		
CROMWELL DRY BUL8		STATION WET BULB		ON LAY, 14 WIND SPEE	7-56W LDNG 0 15, 01R.		1964, 07 R. 21	OO G.C.T. WEATHER OI	v15.	CLOU	TYPE .	COVER
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGHA-T	OELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN. DPTH.
0-	24.01	35.39	5.07		23.95	396.4	0.	24.01	35.39	23.95	396.4	0.000
9.	23.99	35.39	5.07		23.96	396.1	10.	23.99	35.39	23.96	396.1	0.040
30.	23.90	35.3R			23.98	395.2	20.	23.95	35.39	23.97	395.7	0.080
50.△	23.78	35.37			24.01	393.3	30.	23.90	35.38	23.98	395.2	0.120
75.	21.58	35.25	5.41		24.54	342.9	50.	23.78	35.37	24.01	393.3	0.199
99.	20.83	35.30	5.30		24.79	320.5	75.	21.58	35.25	24.54	342.9	0.292
123.	20.29	35.29	5.10		24.92	308.3	100.	20.81	35.30	24.79	319.9	0.375
149.	19.64	35-18	5-07		25.01	300.8	150.	19.61	35.17	25.02	300-4	0.532
172-	18.75	35.03	4.90		25.13	290.5	200.	17.26	34.78	25.30	274.2	0.676
186.	18.11	34.92	4.86		25.20	283.6	250.	14.25	34.39	25.69	238.4	0.R06
219.	16.02	34.60	4.74		25.45	260.1	300.	11.76	34.15	26.00	209.0	0.918
246.	14-47	34.42	4.80		25.66	241.0	400.	8.79	34.05	26.43	168.2	1.109
271.	13.13	34.27	4.83		25.82	225.7	500.	6.63	34.03	26.72	140.1	1.264
294.	12.00	34.17	4.93		25.96	212.1	600.	5.40	34.13	26.96	117.R	1.395
391.	9.03	34.06	4.49		26.40	171-2	700 •	4.76	34.24	27.12	102.5	1.506
491-	6.78	34.02	2.80		26.70	142.4	800.	4.42	34.34	27.24	91.7	1.604
587.	5.51	34.11	1.23		26.93	120.2	1000.	3.90	34.46	27.39	7R.6	1.776
783.	4.48	34.33	0.53		27.22	93.2	1200.	3.47	34.54	27.49	69.4	1.926
977.	3.95	34.45	0.92		27.38	79-8						
1171.	3.58	34.53	1.22		27.48	71.0						
1464.	2.91	34.57	1.54		27.57	62.1						

CROMWELL ORY 8UL8		WET BUL8		2N LAT, 148 WIND SPEED		, OC7. 17, 15 BAR	1964, 16 - 19	00 G.C.T. WEATHER 02	vis.	CLUUD	TYPE	COVER
OEP TH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0.	24-05	35.44	5.15		23.98	393.9	0.	24.05	35.44	23.98	393.9	0.000
11-	24.09	35.44	5.20		23.97	395.4	10.	24.09	35.44	23.97	395.4	0.040
30.	24.06	35.44			23.98	395.4	20.	24.08	35.44	23.97	395.6	0.080
50.△	24.05	35.44			23.98	395.9	30.	24.06	35.44	23.98	395.4	0.119
75.△	21.60	35.30			24.58	339.8	50.	24.05	35.44	23.98	395.9	0.199
102.	20.59	35.19	5.55		24.77	322.4	75.	21.60	35.30	24.58	339.8	0.292
127.	19.53	35.08	5.44		24.96	304.5	100.	20.64	35.20	24.76	323.0	0.375
153.	17.78	34.82	5.21		25.21	282.0	150.	17.98	34.85	25.18	284.5	0.528
178.	16.75	34.70	4.98		25.36	267.9	200.	15.20	34.50	25.56	248.9	0.663
193.	15.63	34.55	5.05		25.50	254.5	250.	13.04	34.30	25.86	221.6	0.781
228.	13.85	34.38	4.86		25.76	230.8	300.	11.41	34.19	26.09	200.2	0.888
255.	12.88	34.28	5.03		25.88	219.7	400.	8.96	34.06	26.41	170.0	1.074
280.	12.02	34.22	5.10		26.00	208.5	500.	7.00	34.01	26.66	146.4	1.234
305.	11.26	34.18	6.11		26.11	198.2	600.	5.49	34.07	26.91	122.8	1.370
405.	8.86	34.06	4.53		26.43	168.8	700.	4.69	34.18	27.08	106.1	1.486
507.	6.88	34.01	3.32		26.68	144.8	800.	4.30	34.29	27.21	94.2	1.587
607.	5.40	34.08	1.56		26.92	121.3	1000.	3.73	34.43	27.39	78.6	1.762
809.	4.28	34.30	0.57		27.22	93.3	1200.	3.35	34.51	27.48	70.0	1.912
1012.	3.71	34.44	0.74		27.39	78.0						, , , , ,
1203.	3.34	34.51	1.17		27.48	69.9						
1482.	2.79	34.57	1.65		27.58	60.8						

CROMWELL ORY BULB		WET BULB			1- OW LONG: D 14, DIR.		1. 16	WEATHER 02	.21V	CLDUC	TYPE	CDVER
0 <b>E₽</b> TH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DEL TA	OEPTH	TEMP.	5AL.	SIGMA-T	PELTA	OYN.OPTH
0.	24.24	35.35			23.86	405.8	0.	24.24	35.35	23.86	405.8	0.000
10.	24.26	35.36			23.86	406.0	10.	24.26	35.36	23.R6	406.0	0.941
10. 30. △	24.26	35.36			23.86	406.8	20.	24.27	35.36	23.86	406.5	0.082
52.	24.16	35.35			23.88	405.5	30.	24.26	35.36	23.86	406.8	0.123
78.	22.03	35.29			24.45	352.1	50.	24.20	35.35	23.87	406.6	0.205
102.	20.92	35.27			24.74	325.2	75.	22.31	35.30	24.38	35R.9	0.301
127.	19.99	35.17			24.91	309.5	100.	20.99	35.27	24.72	326.8	0.387
153.	19.35	35.11			25.03	298.8	150.	19.42	35.12	25.02	299.9	0.545
180.	18.34	34.96			25.18	286.0	200.	17.35	34.80	25.30	274.9	0.690
193.	17.79	34.87			25.24	279.9	250.	13.RO	34.32	25.73	234.4	0.819
226.	15.46	34.53			25.53	253.3	300.	11.14	34.13	26.09	199.8	0.928
253.	13.59	34.30			25.75	232.1	400.	8.60	34.06	26.47	164.5	1.112
278.	11.91	34.14			25.96	212.3	500.	6.46	34.00	26.73	139.6	1.265
303.	11.06	34.13			26.11	19R.3	600.	5.39	34.13	26.97	117.0	1.395
404.	8.52	34.06			26.48	163.5	700.	4.79	34.25	27.13	101.8	1.506
505.	6.37	34.00			26.74	138.5	800.	4.42	34.35	27.25	91.4	1.603
603.	5.37	34.14			26.97	116.4	1000.	3.90	34.48	27.40	77.3	1.774
803.	4.41	34.35			27.25	91.1	1200.	3.46	34.52	27.48	70.6	1.924
1002.	3.90	34.48			27.40	77.2	1500.	2.82	34.58	27.59	60.5	2.123
1201.	3.46	34.52			27.48	70.6	2000.	2.12	34.63	27.69	51.0	2.406
1498.	2.82	34.58			27.59	60.5	2500.	1.77	34.66	27.74	46.3	2.654
1994.	2.13	34.63	2.09		27.69	51.1	3000.	1.56	34.68	27.77	43.6	2.883
2494.	1.77	34.66	2.56		27.74	46.3						
2991.	1.5B	34.68	3.00		27.77	43.9						
3988.	1.50	34.70	3.63		27.79	44.2						

Table 2.--Continued

		RIGINAL DA	TA	+	DERIVE	DATA	+		INTERPOLA	TED DATA-		
CROMWELL DRY BUL8		STATION WET BULG		N LAT, 154- WIND SPEED			1964, 02 R. 15	00 G.C.T. WEATHER 02	V15. 4	CLOUO	TYPE 6,	COVER 8
DEPTH	TEMP.	5AL.	DXY.	PD4-P	51GMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH
0.	24.53	35.43	5.36		23.83	408.3	0.	24.53	35.43	23.83	408.3	0.000
10.	24.52	35.44	5.37		23.84	407.7	10.	24.52	35.44	23.84	407.7	0.041
30.△	24.48	35.44			23.85	407.3	20.	24.52	35.44	23.84	407.8	0.082
50.	24.20	35.43			23.93	400.8	30.	24.48	35.44	23.85	407.3	0.123
77.	21.43	35.28	5.56		24.61	336.8	50.	24.20	35.43	23.93	400.8	0.205
102.	20.56	35.25	5.39		24.82	317.3	75.	21.65	35.29	24.56	341.7	0.298
127.	19.60	35.13	5.20		24.98	302.6	100.	20.60	35 • 25	24.81	318.1	0.381
153.	18.05	34.87	4.89		25.18	284.7	150.	18.23	34.90	25.16	286.8	0.534
178.	16.96	34.73	4.89		25.34	270.4	200.	15.40	34.55	25.56	249.7	0.669
193.	15.89	34.60	4.87		25.48	256.5	250.	12.43	34.31	25.99	209.0	0.784
227.	13.65	34.40	5.21		25.82	225.3	300.	11.50	34.24	26.11	190.0	0.887
253.	12.31	34.30	5.23		26.01	207.4	400-	9.09	34.10	26.42	169.7	1.073
280.	11.86	34.27	5.28		26.07	201.9	500.	6.77	34.01	26.69	143.1	1.231
305.	11.40	34.23	5.31		26.12	197.0	600.	5.25	34.07	26.93	119.9	1.363
405.	8.96	34.09	4.87		26.43	168.2	700.	4.55	34.19	27.10	103.8	1.476
507.	6.63	34.01	4.97		26.71	141.3	800.	4.25	34.31	27.23	92.2	1.575
608.	5.16	34.08	1.62		26.95	118.3	1000.	3.76	34.46	27.41	76.7	1.746
809.	4.24	34.32	0.69		27.24	91.4	1200.	3.30	34.54	27.51	67.4	1.892
1011.	3.74	34,47	1.06		27-41	76.1	1500.	2.72	34.59	27.61	58.5	2.084
1211.	3.28	34.54	1.48		27.51	67.0						
1521.	2.68	34.59	1.86		27.61	58.2						

CROMWELL DRY BULE		WET BUL8			7- OW LONG, D 15, DIR.		1964, 180 2. 21	OO G.C.T. WEATHER OI	V15.	8 CLOUD	TYPE 8,	COVER 4
0EPTH	TEMP.	SAL.	DXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	51GMA-T	DELTA	DYN.DPTH
0.	24.92	35.29			23.61	429.6	0.	24.92	35.29	23.61	429.6	0.000
9.	24.92	35.28			23.60	430.7	10.	24.92	35.28	23.60	430.8	0.043
50.0	24.94	35.28			23.59	432.9	20.	24.93	35.28	23.59	431.6	0.087
76.	24.93	35.28			23.59	433.6	30.	24.93	35.28	23.59	432.2	0.130
100-	22.76	35.20			24.17	379.2	50.	24.94	35.28	23.59	432.9	0.217
124.	21.95	35.23			24.43	356.0	75.	24.95	35.28	23.59	434.2	0.327
151.	21.32	35.27			24.63	337.4	100.	22.76	35.20	24.17	379.2	0.429
174.	20.63	35.19			24.76	326.1	150.	21.34	35.27	24.62	338.0	0.610
188.	19.82	35.04			24.86	316.8	200.	19.01	34.94	24.99	304.0	0.772
222.	17.50	34.80			25.26	279.2	250.	15.86	34.62	25.51	256.0	0.913
249.	15.93	34.63			25.50	256.9	300 •	13.24	34.33	25.85	224.0	1.034
272-	14.47	34.46			25.69	238.8	400.	9.87	34.12	26.31	180.8	1.238
298.	13.32	34.34			25.84	225.0	500.	7.51	34.03	26.60	152.3	1.406
399.	9.90	34.12			26.30	181.1	600.	5.65	34.05	26.87	126.4	1.547
497.	7.58	34.03			26.59	153.2	700•	4.86	34.15	27.04	110.6	1.667
597.	5.68	34.05			26.86	126.9	800.	4.54	34.27	27.17	98.9	1.772
794.	4.57	34.26			27.16	99.6	1000.	3.86	34.46	27.40	77.9	1.951
994.	3.88	34.46			27.39	78.3	1200.	3.38	34.53	27.50	68.7	2.100
1189.	3.40	34.53			27.49	69.0	1500.	2.82	34.57	27.58	61.1	2.297
1489.	2.84	34.57			27.58	61.4	2000.	2.11	34.63	27.69	50.8	2.582
1996.	2.11	34.63	3.12		27.69	50-8	2500•	1.74	34.63	27.72	48.0	2.833
2494.	1.74	34.63	2.79		27.72	48.1	3000.	1.55	34.65	27.75	45.5	3.072
2992-	1.58	34.66	3.18		27.75	45.4						
3809.	1.50	34.70	3.66		27.79	43.7						

TEMPERATURE ERROR TERM AT 700. METERS 15 0.13

CROMWELL DRY BULB		STATION WET BULB		9N LAT, 157 WIND SPEED		, OCT. 20, 04 8AR	1964, 05 . 20	00 G.C.T. WEATHER 01	V15.	CLOUD	TYPE 8,	COVER 1
DEPTH	TEMP.	5AL.	DXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH
1.	25.17	35.09			23.38	451.3	0.	25.17	35.09	23.38	451.3	0.000
10.	25.17	35.09			23.38	451.7	10.	25.17	35.09	23.38	451.7	0.045
30.⁴	25.10	35.09			23.40	450.4	20.	25.15	35.09	23.39	451.4	0.091
50.△	24.94	35.09			23.45	446.6	30.	25.10	35.09	23.40	450.4	0.136
73.	23.64	35.13			23.87	407.5	50.	24.94	35.09	23.45	446.6	0.227
97.	22.65	35.24			24.24	373.2	75.	23.55	35.14	23.90	404.5	0.334
120.	21.58	35.24			24.54	345.3	100.	22.50	35.24	24.28	369.0	0.431
143.	20.96	35.25			24.71	329.1	150.	20.76	35.22	24.75	326.2	0.607
168.	19.96	35.10			24.87	315.3	200.	17.83	34.85	25.22	282.4	0.760
182.	18.89	34.98			25.05	297.9	250.	15.15	34.53	25.59	247.5	0.894
214.	17.11	34.76			25.32	272.8	300.	12.82	34.31	25.91	217.7	1.011
238.	15.83	34.60			25.50	256.6	400 •	9.40	34-07	26.35	176.2	1.210
262.	14.49	34.46			25.69	238.9	500.	7.13	34.04	26.67	146.0	1.372
286.	13.42	34.36			25.83	225.2	600.	5.46	34.10	26.93	120.7	1.507
379.	9.96	34.10			26.28	183.2	700.	4.70	34.21	27.10	104.0	1.620
470.	7.81	34.04			26.57	155.4	800.	4.34	34.33	27.24	91.9	1.720
562.	5.90	34.06			26.84	128.6	1000.	3.83	34.48	27.41	76.5	1.890
745.	4.56	34.27			27.17	98.3	1200.	3.33	34.56	27.52	66.4	2.035
930.	3.99	34.44			27.36	80.6						
1116.	3.58	34.52			27.47	71.3						
1398.	2.86	34.57			27.58	61.1						

△FROM 8T OATA

Table 2.--Continued

	——с	RIGINAL DA	TA	+	DERIVE	D DATA	<del> </del>	INTERPOLATED DATA					
CROMWELL ORY BULB		STATION WET BULB		ON LAT, 157 WINO SPEED			1964, 15 R. 18	00 G.C.T. WEATHER 01	¥15.	8 CLOUC	TYPE ,	COVER	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-I	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN.OPTH	
0.	25.27	35.05			23.32	457.1	0.	25.27	35.05	23.32	457.1	0.000	
9.4	25.33	35.05			23.30	459.2	10.	25.33	35.05	23.30	459.3	0.046	
50. A	25.33	35.05			23.30	460.8	20.	25.35	35.05	23.29	460.3	0.092	
75.4	25.33	35.05			23.30	461.8	30.	25.36	35.05	23.29	460.8	0.139	
95.	23.62	35.07			23.83	412.2	50.	25.33	35.05	23.30	460.8	0.232	
117.	22.58	35.12			24.17	380.7	75.	25.33	35.05	23.30	461.8	0.348	
140.	21.40	35.17			24.53	346.3	100.	23.35	35.08	23.91	404.0	0.457	
163.	20.57	35-13			24.73	328.4	150.	21.04	35.16	24.62	337.9	0.644	
178.	19.80	35.07			24.89	313.8	200.	18.81	34.96	25.05	298.4	0.R04	
210.	18.31	34.89			25.13	291.4	250.	15.49	34.55	25.54	253.1	0.943	
234.	16.63	34.69			25.38	267.6	300.	12.02	34.20	25.99	210.1	1.060	
258.	14-89	34.48			25.61	245.7	400.	9.29	34.14	26.42	169.6	1.252	
281.	12.99	34.28			25.86	222.5	500.	7.34	34.17	26.74	139.7	1.408	
375.	9.89	34.15			26.33	178.3	600.	5.96	34.24	26.98	116.3	1.537	
469.	7.91	34.15			26.64	148.7	700.	5.21	34.33	27.14	101.1	1.647	
563.	6.35	34.21			26.91	123.5	800.	4.81	34.41	27.25	91.4	1.744	
752.	4.99	34.38			27.21	95.5	1000.	4.24	34.49	27.38	80.3	1.918	
942.	4.42	34.48			27.35	83.0	1200.	3.66	34.54	27.48	71.6	2.072	
1130.	3.84	34.51			27.43	75.3							
1418.	3.07	34.56			27.55	64.5							

TEMPERATURE ERROR TERM AT 300. METERS 15 0.17

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 10

	0	RIGINAL DAT	ΓΑ	1	DERIVED DATA INTERPOLATED DATA								
CROMWELL ORY BULB		STATION WET BULB		ON LAT, 157			1964, 09 R. 20	OO G.C.T. WEATHER OZ	V15. 8	CLOUO	TYPE .	COVER 2	
OEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH	
0.	25.66	34.92			23.10	477.9	0.	25.66	34.92	23.10	477.9	0.000	
10.	25.67	34.92			23.10	478.6	10.	25.67	34.92	23.10	478.6	0.048	
51.	25.41	35.04			23.27	463-9	20.	25.64	34.95	23.13	476.2	0.096	
77.	25.12	35.05			23.36	455.8	30.	25.59	34.97	23.16	473-1	0.144	
103.	23.33	35.10			23.93	402.2	50.	25.42	35.04	23.26	464.4	0.239	
128.	21.64	35.11			24.42	356.5	75.	25.17	35.05	23.35	457.2	0.355	
153.	20-42	35.07			24.72	328.6	100.	23.57	35.09	23.86	409.3	0.454	
178.	19.39	34.98			24.92	310.0	150.	20.55	35.08	24.69	331.2	0.650	
194.	19.04	34.94			24.98	304.9	200-	18.64	34.90	25.05	298.2	0.809	
228.	16.42	34.68			25.42	263.5	250.	15.21	34.56	25.61	246.1	0.946	
253.	15.06*	34.55			25.63	244.1	300.	12.00	34.27	26.04	204.9	1.060	
280.	13.63	34.41			25.83	225.6	400.	8.26	34.13	26.57	154.3	1.241	
306.	11.50	34.23			26.10	198.9	500.	6.28	34.21	26.91	121.7	1.380	
406.	8.19	34.14			26-59	152.6	600.	5.58	34.33	27.09	105.3	1.495	
508.	6-17	34.22			26.94	119.6	700.	5.08	34.41	27.22	94.0	1.596	
604.	5.57	34.33			27.10	104.9	800.	4.66	34.47	27.31	85.5	1.687	
810.	4.62	34.47			27.32	84.9	1000.	3.99	34.53	27.43	74.8	1.849	
1018.	3.94	34.53			27.44	74.1	1200.	3.44	34.57	27.52	66.8	1.992	
1222.	3.38	34.57			27.53	66.1	1500.	2.79	34.60	27.61	58.8	2.183	
1523.	2.75	34.60			27.61	58.4							

CROMWELL ORY BULB		WET BULB		N LAT. 156	-56W LONG.		1964, 20 . 18	OO G.C.T. WEATHER O3	VIS.	6 CLOUO	TYPE 6.	COVER 6
0EPTH	TEMP.	SAL	OXY.	P04-P	SIGMA-T	OELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH
0.	25.94	34.92			23.01	486.2	0.	25-94	34.92	23.01	486.2	0.000
10.	25.97	34.93			23.01	486.7	10.	25.97	34.93	23.01	486.7	0.049
100.	25.99	34.92			23.00	491.7	20.	75.99	34.93	23.01	487.6	0.098
126.	25.96	34.93			23.01	491.1	30.	26.00	34.93	23.00	488.3	0.147
152.	25.83	34.94			23.06	487.6	50.	26.02	34.93	23.00	489.6	0.246
177.	23.61	35.07			23.83	415.0	75.	26.02	34.93	23.00	490.9	0.369
191.	22.32	35.11			24.23	377.1	100.	25.99	34.92	23.00	491.7	0.493
226.	19.05	34.99			25.02	302.6	150.	25.88	34.94	23.04	489.2	0.740
252.	16.71	34.69			25.36	270.0	200.	21.48	35.11	24.47	354.9	0.953
279.	14.47	34.45			25.68	239.7	250.	16.89	34.72	25.34	272.1	1.111
302.	12.27	34.29			26.01	208.6	300.	12.46	34.30	25.98	211.1	1.233
405-	8.24	34.13			26.58	154-1	400 -	8.30	34.12	26.56	155.3	1.418
506.	6.40	34.22			26.91	122.7	500.	6.45	34.21	26.89	124.1	1.559
605.	5.67	34.35			27.10	104.7	600.	5.69	34.34	27.09	105.4	1.675
810.	4.77	34.46			27.30	87.5	700.	5.18	34.42	27.21	94.6	1.776
1010.	4.21	34.52			27.40	78.1	800.	4.80	34.46	27.29	87.9	1.868
1210.	3.62	34.56			27.50	69.6	1000.	4.23	34.52	27.40	78.4	2.036
1511.	2.85	34.60			27.60	59.5	1200.	3.65	34.56	27.49	70.0	2.187
							1500.	2.88	34.60	27.60	59.8	2.384

CROMWELL ORY BULB		STATION WET BULB		94 LAT, 157 WIND SPEEC			1964, 06 R. 16	OO G.C.T. WEATHER 02	VIS. 7	crano	TYPE .	COVER
OEPTH	TEMP.	SAL.	OXY.	P04-P	51GMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	25.99	33.95			22.27	557.5	0.	25.99	33.95	22.27	557.5	0.000
12.	25.97	33.95			22.27	557.4	10.	25.97	33.95	22.27	557.4	0.056
30.△	25.97	33.95			22.27	558.1	20.	25.97	33.95	22.27	557.6	0.112
50.△	25.97	33.95			22.27	558.9	30.	25.97	33.95	22.27	558.1	0.168
73.	23.81	34.83			23.59	433.9	50.	25.97	33.95	22.27	558.9	0.281
99.	22.39	35.01			24-14	382.8	75.	23.68	34.86	23.65	428.1	0.405
123.	21.35	35.12			24.51	348.0	100.	22.35	35.02	24.15	301.1	0.507
149.	19.98	35.07			24.84	317.3	150.	19.93	35.07	24.85	316.3	0.683
173.	18.34	34.88			25.11	291.6	200.	15.99	34.53	25.41	263.7	0.829
187.	16.86	34.66			25.31	273.5	250.	11.04	34.20	26.16	191.8	0.944
220.	14.60	34.40			25.62	244.4	300.	9.69	34.28	26.47	163.5	1.034
247.	11.20	34.20			26.14	194.3	400.	7.66	34.29	26.79	133.7	1.183
272.	10.39	34.22			26.30	179.4	500.	6.18	34.29	26.99	114.5	1.309
296.	9.78	34.28			26.45	165.3	600.	5.91	34.42	27.13	102.7	1.418
393.	7.80	34.29			26.77	135.5	700-	5.40	34.47	27.23	93.5	1.518
492.	6.22	34.28			26.98	115.6	800.	4.87	34.49	27.31	86.4	1.609
575.	6.03	34.40			27.10	105.3	1000.	4.12	34.53	27.42	76.3	1.773
766.	5.02	34.48			27.28	88.6	1200.	3.52	34.56	27.50	68.6	1.920
959.	4.25	34.52			27.40	78.1						
1152.	3.69	34.55			27.48	70.7						
1440.	2.93	34.58			27.58	61.5						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

Table 3.--Continued

		RIGINAL DA	ΤΑ		DERIVE	D DATA-	+		INTERPOL	ATED DATA-		
CROMWELL DRY BULK		STATION WET RULK		3% LAT. 156 WIND SPEED			1964, 16 R. 14	00 G.C.T. WEATHER 02	V15.	7 &LOU	TYPE ,	COVER
DEPTH	THMP.	SAL.	IXY.	P04-P	51GMA-T	CELTA	OEPTH	TEMP.	SAL.	51GMA-T	OELTA	OYN.DPTH
C.	25.91	34.00			22.33	551.5	0.	25.91	14.00	22.33	551.5	0.000
10.	25.93	34.00			22.32	552.5	10.	25.93	34.00	22.32	552.5	0.056
20.0	25.93	34.00			22.32	552.9	20.	25.93	34.00	22.32	552.9	0.111
30.	25.93	34.00			22.32	553.3	30.	25.93	34.00	22.32	553.3	0.167
49.	25.29	34.7∂			23.11	479.0	50.	25.20	34.80	23.15	475.3	0.271
74.	22.79	34.96			23.98	396.3	75.	22.71	34.97	24.02	393.4	0.380
97.	21.18	35.16			24.59	339.7	100.	20.99	35.16	24.63	335.2	0.472
121.	19.67	35.03			24.89	311.4	150.	17.44	34.72	25.21	281.2	0.627
146.	17.84	34.77			25.15	286.8	200.	12.85	34.30	25.90	216.4	0.752
170.	15.36	34.49			25.52	252.4	250.	10.28	34.30	26.38	170.8	0.850
185.	13.91	34.34			25.72	233.7	300.	9.15	34.30	26.56	153.9	0.912
217.	11.91	34.31			26.09	198.3	400.	7.95	34.46	26.88	125.5	1.073
243.	10.64	34.33			26.34	174.9	500.	6.66	34.48	27.08	106.8	1.190
269.	9.48	34.24			26.47	162.8	600.	6.04	34.49	27.17	99.2	1.294
292.	9.25	34.26			26.53	156.6	700.	5.25	34.49	27.27	89.8	1.390
390.	7.96	34.45			26.87	126.0	500.	4.76	34.51	27.33	83.9	1.478
489.	6.92	34.44			27.04	110.3	1000.	4.02	34.55	27.45	73.4	1.637
493.	6.79	34.4R			27.06	108.4						
586.	6.20	34.49			27.15	161.1						
623.	5.78	34.41			27.20	96.0						
75H.	5.00	34.50			27.3C	86.8						
967.	4.00	34.54			27.43	74.6						
1000.44	4.02 **	* 34.55*	*		27.45	73.4						

CROMWELL ORY BULB		STATION WET BULB			156-59W LONG, EEO 21, DIR.		1964, 01 R. 12	00 G.C.T. WEATHER 03	VI5.	8 CLOUD	TYPE 8,	CCVER 5
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH
0.	25.84	34.08			22.41	543.7	0.	25.84	34.0B	22.41	543.7	0.000
8.	25.83	34.08			22.41	543.7	10.	25.83	34.09	22.42	543.3	0.055
30.△	25.80	34.18			22.50	536.5	20.	25.R2	34-13	22.45	540.4	0.109
50.△	25.74	34.25			22.57	530.5	30.	25.80	34.18	22.50	536.5	0.164
70.	23.28	34.83			23.74	419.0	50.	25.74	34.25	22.57	530.5	0.271
93.	22.26	35.04			24.20	376.9	75.	23-01	34.91	23.8R	406.1	0.389
116.	20.40	34.96			24.64	334.7	100.	21.77	35.04	24.33	364.3	0.486
139.	17.89	34.78			25.15	287.0	150.	17.19	34.71	25.26	276.4	0.647
164.	16.44	34.64			25.39	264.8	200.	13.63	34.55	25.94	213.2	0.771
196.	14.04	34.61			25.90	216.9	250.	10.53	34.22	26.27	181.6	0.870
211.	12.51	34.37			26.02	204.9	300.	9.44	34.36	26.57	153.7	0.955
277.	9.99	34.30			26.43	166.9	400.	7.90	34.48	26.90	123-4	1.095
341.	8.70	34.48			26.78	134.1	500.	6.81	34.47	27.05	109.9	1.213
407.	7.82	34.47			26.91	122.7	600.	5.97	34.48	27.17	98.8	1.318
539.	6.45	34.47			27.10	105.3	700.	5.34	34.50	27.26	90.1	1.413
671.	5.51	34.50			27.24	92.3	800.	4.81	34.52	27.34	83.5	1.501
805.	4.79	34.52			27.34	83.2	1000.	4.08	34.55	27.44	74.3	1.661
1013.	4.05	34.55			27-45	73.9		1.00	,,,,,	2		44

TEMPERATURE ERROR TERM AT 250. METERS 15 0.23 SALINITY ERROR TERM AT 250. METERS 15 0.05

CROMWELL DRY BULB		MOITATZ			7- OW LONG. 0 26, DIR.		1964, 09 R. 13	00 G.C.T. WEATHER 02	V15.	crond	TYPE .	COVER
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	26.67	33.92			22.03	580.0	0.	26.67	33.92	22.03	580.0	0.000
10.	26.63	33.92			22.04	579.2	10.	26.63	33.92	22.04	579.2	0.058
30.△	26.62	33.92			22.05	579.7	20.	26.63	33.91	22.04	580.5	0.117
50•△	26.40	34.10			22.25	560.9	30.	26.62	33.92	22.05	579.7	0.175
71.	22.86	34.86			23.89	405.3	50.	26.40	34.10	22.25	560.9	0.290
94.	21.18	35.07			24.52	346.L	75.	22.49	34.93	24-05	390.2	0.410
118.	19.35	34.97			24.93	307.7	100.	20.82	35.08	24.62	336.2	0.501
140.	15.97	34.53			25.41	261.7	150.	14.50	34.39	25.63	241.1	0.647
164.	12.76	34.26			25.R9	216.5	200.	10.59	34.26	26.29	178.7	0.753
178.	11.68	34.22			26.06	199.8	250.	9.35	34.39	26.61	149.0	0.835
210.	10.27	34.29			26.37	170.9	30U.	9.09	34.51	26.74	137.0	0.907
233.	9.68	34.35			26.52	157.2	400.	8.29	34.57	26.91	122.4	1.038
257.	9.25	34.41			26.64	146.3	500.	7.30	34.53	27.03	112.0	1-157
282.	9-18	34.48			26.70	140-5	600.	6.39	34.52	27.14	101.9	1.265
375.	8.52	34.57			26.88	125.3	700.	5.61	34.52	27.24	92.9	1.363
470.	7.59	34.54			26.99	115-2	800.	5.01	34.53	27.32	85.3	1.453
563.	6.71	34.52			27.10	105.6	1000.	4.17	34.57	27.45	74.0	1.614
752.	5.27	34.52			27.28	88.7	1200.	3.49	34.59	27.54	65.5	1.756
939.	4.41	34.56			27.41	76.9						
1128.	3.72	34.58			27.50	68.7						
1415.	2.94	34.61			27.60	59.2						

AFROM BT DATA \*\*EXTRAPOLATED DATA

Table 3.--Continued

	——С	RIGINAL DA	ΤΑ		- DERIVE	D DATA-	-		INTERPOLA	ATED DATA-		
CRDMWELL DRY 8UL8		STATION WET BULB		ON LAT, 157- WIND SPEED			, 1964, 18 AR. 12	OO G.C.T. WEATHER 14	v15.	7 CLOUO	TYPE 1,	COVER 7
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPT
0.	26.43	33.69			21.93	589.4	0.	26.43	33.69	21.93	589.4	0.000
11.	26.44	33.69			21.93	590.1	10.	26.44	33.69	21.93	590.1	0.059
20.	26.43	33.69			21.93	590.1	20.	26.43	33.69	21.93	590.1	0.119
30.△	26.43	33.69			21.93	590.5	30.	26.43	33.69	21.93	590.5	0.178
51.	20.53	34.56			24.31	364 - 6	50.	20.88	34.52	24.1R	376.8	0.276
75.	15.88	34.46			25.38	262.9	75.	15.88	34.46	25.38	262.9	0.356
101.	12.95	34.33			25.90	213.4	100.	13.03	34.33	25.89	214.7	0.416
126.	11.49	34.45			26.28	178.3	150.	11.28	34.61	26.44	163.4	0.51
152.	11.28	34.62			26.45	162.7	200.	10.61	34.67	26.61	148.5	0.59
176.	10.91	34.67			26.55	153.1	250.	10.33	34.70	26.68	142.6	0.66
190.	10.70	34.66			26.58	150.5	300.	9.36	34.63	26.79	132.7	0.73
225.	10-46	34.70			26.66	144.2	400.	8.11	34.57	26.94	119.6	0.860
250.	10.33	34.70			26.68	142.6	500.	7.04	34.55	27.08	107.1	0.97
276.	9.92	34.67			26.73	138.5	600.	6.29	34.53	27.16	99.6	1.07
300.	9.36	34.63			26.79	132.7	700.	5.65	34.54	27.25	92.0	1.17
400.	8.11	34.57			26.94	119.6	R00 .	5.10	34.55	27.33	84.9	1.26
499.	7.05	34.55			27.08	107.2	1000.	4.24	34.57	27.44	74.6	1.42
599.	6.30	34.53			27.16	99.7	1200 •	3.59	34.59	27.52	66.9	1.57
797.	5.12	34.55			27.33	85.1						
996.	4.25	34.57			27.44	74.7						
1194.	3.65	34.59			27.52	67.6						
1493.	2.84	34.62			27.62	57.8						

CRDMWELL DRY 8UL8		WET BULB			3-56W LDNG, 0 16, DIR.			WEATHER 02	vis.	CLOUD	TYPE ,	COVER
DEPTH	TEMP.	SAL.	DXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.CPTH.
0.	27.04	34.01	4.59	0.29	21.98	584.8	0.	27.04	34.01	21.98	584.8	0.000
10.	27.06	34.01	4.58	0.31	21.98	585.8	10.	27.06	34.01	21.98	595.8	0.059
20.	25.66	34.92			23.10	478.7	20.	25.66	34.92	23.10	478.7	0.113
30.△	25.66	34.92			23.10	479.1	30.	25.66	34.92	23.10	479.1	0.161
50.	22.59	34.85	4.76	0.33	23.96	397.9	50.	22.59	34.85	23.96	397.9	0.249
75.	17.14	34.61	3.88	0.73	25.20	280.0	75.	17.14	34.61	25.20	280.0	0.335
101.	12.90	34.44	1.91	1.58	26.00	204.4	100.	13.02	34.44	25.98	206.5	0.396
126.	11.98	34.68	0.30	1.91	26.36	170.2	150.	11.38	34.70	26.49	158.3	0.488
152.	11.34	34.70	0.48	2.13	26.50	157.9	200.	10.73	34.72	26.63	146.8	0.565
176.	11.01	34.72		2.53	26.57	151.1	250.	10.15	34.71	26.72	138.6	0.637
191.	10.91	34.72	0.46	2.55	26.59	149.7	300.	9.81	34.82	26.86	126.5	0.703
200.	10.73	34.72	0.44	2.16	26.63	146.8	400.	9.02	34.76	26.94	119.9	0.828
225.	10.37	34.72	0.60	2.73	26.69	141.2	500.	8.06	34.61	26.98	117.3	0.948
252.	10.13	34.71	0.47	2.13	26.72	138.5	600.	7.12	34.57	27.08	108.3	1.061
272.	9.93	34.70	0.61	2.09	26.75	136.3	700.	6.24	34.55	27.19	98.7	1.166
273.	9.93	34.71	0.44	2.34	26.76	135.6	800.	5.58	34.55	27.27	91.4	1.262
420.	8.79	34.66	0.55		26.91	123.8	1000.	4.62	34.56	27.39	80.4	1.436
564.	7.46	34.58	0.3R	3.32	27.04	111.9	1200.	3.92	34.58	27.48	71.9	1.590
710.	6.16	34.55	0.73	2.69	27.20	97.8	1500.	3.14	34.61	27.58	62.4	1.795
931.	4.91	34.55	1.01	2 . 85	27.35	83.9	2000.	2.19	34.65	27.70	50.5	2.082
1295.	3,66	34.59	1.53	2.63	27.52	68.6	2500.	1.82	34.67	27.74	46.1	2.328
1659.	2.80	34.62	1.80	2.50	27.62	58.3						
2023.	2.16	34.65	2.24	2 . 25	27.70	50.1						
2742.	1.83	34.68	2.69	2.74	27.75	46.5						

SALINITY ERROR TERM AT 300. METERS IS 0.07 SALINITY ERROR TERM AT 400. METERS IS 0.06

CROMWELL DRY 8UL8		STATION WET BULB			3-59W LDNG, D 20, OIR.		1964, 00	OQ G.C.T. WEATHER OI	vis.	7 CLOU0	TYPE 1.	COVER 7
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	OEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DP7H
0.	26.55	34.02	4.41		22.14	569.2	0.	26.55	34.02	22-14	569.2	0.000
11.	26.59	34.02	4.75		22.13	570.9	10.	26.59	34.02	22.13	570.8	0.057
20-0	26.58	34.02			22.14	570.9	20.	26.58	34.02	22.14	570.9	0.115
30.△	26.52	34.07			22.19	565.9	30.	26.52	34.07	22.19	565.9	0.172
51.	21.88	34.61	5.10		23.9R	396.2	50.	22.15	34.58	23.88	405.3	0.270
78.	18.89	34.81	4.49		24.92	306.7	75.	19.16	34.82	24.86	312.8	0.360
100-	15.72	34.52	3.76		25.46	255.8	100.	15.72	34.52	25.46	255.8	0.432
124.	12.68	34.49	1.35		26.08	197.1	150.	11.61	34.64	26.40	167.0	0.539
150.	11.61	34.64	0.53		26.40	167.0	200.	10.6R	34.71	26.63	146.7	0.618
176.	10.97	34.68	0.42		26.55	153.4	250.	10.14	34.71	26.72	138.6	0.690
191.	10.77	34.70	0.31		26.60	148.8	300.	9.65	34.69	26.79	133.1	0.758
222.	10.46	34.72	0.31		26.67	142.7	400.	8.69	34.64	26.90	123.4	0.888
250.	10.14	34.71	0.42		26.72	138.6	500.	7.68	34.59	27.02	113.4	1.007
276.	9.83	34-70	0.44		26.77	134.7	600.	6.85	34.56	27.11	105.2	1.117
299.	9.66	34.69	0.44		26.79	133.2	700.	6.09	34.55	27.21	96.8	1.219
398.	8.71	34.64	0.40		26.90	123.6	900.	5.46	34.55	27.29	89.5	1.314
499.	7.69	34.59	0.43		27.02	113.5	1000.	4.49	34.56	27.41	78.5	1.484
598.	6.87	34.56	0.66		27-11	105.4	1200.	3.79	34.58	27.49	70.4	1.634
774.	5.60	34.55	0.95		27.27	91.1						
924.	4.90	34.56	0.89		27.36	82.9						
1310.	3.52	34.59	1.55		27.53	67.0						

AFRON 8T OATA

Table 3.--Continued

	0	RIGINAL DA	ГА	+	DERIVE	D DATA-			INTERPOLA	ATED DATA—		
CROMWELL ORY BULB		STATION WET BULB		ON LAT, 153- WIND SPEED	-57W LONG	, NOV. 9,	1964, 10	00 G.C.T. WEATHER 01	V15.	CLCUC	TYPE ,	COVER
DEPTH	TEMP.	5AL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SEGMA-T	OELTA	DYN. DPTH
0.	26.43	33.94	4.67	0.33	22.12	571.4	0.	26.43	33.94	22.12	571.4	0.000
11-	26-46	33+94	4.70	0.33	22.11	572.7	10.	26.46	33.94	22.11	572.7	0.058
30.	26.44	34.00			22.16	568.5	20.	26.49	33.93	22.10	574.4	0.115
51.	25.81	34.63	5.18	0.31	22.83	505.2	30.	26.44	34.00	22.16	56R.5	0.173
78.	22.34	34.87	4.R1		24.04	390.7	50.	25.87	34.60	22.79	509.2	0.282
102.	20.13	35.01	4.65	0 - 42	24.75	323.7	75.	22.77	34.86	23.91	403.0	0.396
126.	16.65	34.65	4.08	0 - 61	25.30	272.2	100.	20.31	35.01	24.70	328.4	0.489
153.	12.94	34.30	2.67	1.82	25.8R	216.8	150.	13.36	34.33	25.82	222.8	0.627
178.	11.60	34.48	1.04	2.53	26.28	179.3	200.	10.98	34.54	26.44	164.4	0.725
191.	11-21	34.52	1.01	2.48	26.38	169.7	250.	10.17	34.60	26.63	147.3	0.804
226.	10.47	34.58	0.71	2.75	26.56	153.2	300.	9.54	34.60	26.74	137.8	0.875
253.	10-14	34.60	0.54	2.45	26.64	146.8	400.	8.61	34.60	26.89	125.0	1.008
281.	9.83	34.60	0.46	2.74	26.69	142.2	500.	7.56	34.57	27.02	112.9	1.128
305.	9.46	34.60	0.35		26.75	136.7	600.	6.79	34.54	27.11	105.6	1.239
405.	8.58	34.60	0.35	2.76	26.89	124.6	700.	6.07	34.53	27.20	97.6	1.341
506.	7.50	34.57	0.60		27.03	112.3	P00.	5.42	34.54	27.28	89.9	1.436
607.	6.74	34.54	0.58	2.56	27.11	105.2	1000.	4.48	34.56	27.41	78.5	1.606
807.	5.38	34.54	0.69	3.23	27.29	89.3	1200.	3.83	34.59	27.50	70.1	1.757
1009.	4.45	34.56	1.25		27.41	78.1	1500.	3.03	34.61	27.59	60.9	1.956
1209.	3.81	34.59	1.41	3.05	27.50	69.7				-		
1510.	3.01	34.61	1.78	2.61	27.59	60.7						

CRONWELL DRY BULB		STATION WET BULB		8N LAT, 153 WIND SPEED			1964, 19	OO G.C.T. WEATHER 02	vis.	2 51 0110	**** *	COVER 6
DRI OULO	2 7 0 1	WC1 0000	2707	WIND SPEED	207 0184	07	,	WEATHER OZ	V13.	0 0000	TIPE B.	COAEK P
DEPTH	TEMP.	SAL.	OXY.	PO4-P	51GMA-T	OEL TA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN. TPTH
0.	26.02	33.91	4.87	0.38	22.23	561.3	0.	26.02	33.91	22.23	561.3	0.000
10.	25.99	33.90	4.R5	0.34	22.23	561.5	10.	25,99	33.90	22.23	561.5	0.057
30.△	25.99	33.90			22.23	562.3	20.	25.9A	33.90	22.23	561.9	0.113
50.△	25.99	33.90			22.23	563.1	30.	25.99	33.90	22.23	562.3	0.170
74.	20.77	34.48	4.84	0.67	24.18	377.4	50.	25.99	33.90	22.23	563.1	0.283
98.	16.33	34.41	2.95	1.51	25.24	277.1	75.	20.56	34.48	24.24	371.7	0.401
124.	13.59	34.31	3.50	2.16	25.76	227.9	100.	16.06	34.40	25.29	271.7	0.482
149.	12.29	34.24	3.26	1.60	25.96	208.8	150.	12.26	34.25	25.97	207.7	0.603
171.	11.71	34.42	1.40	2.20	26.21	185.5	200.	10.81	34.47	26.42	166.6	0.697
186.	11.17	34.45	1.27	2.27	26.34	174.0	250.	9.74	34.48	26.61	148.7	0.776
218.	10.41	34.48	1.08	2.35	26.50	159.4	300.	8.98	34.45	26.71	139.9	0.849
243.	9.81	34.47	1.01	2.53	26.59	150.7	400 -	7.65	34.44	26.91	122.0	0.981
268.	9.58	34.51		2.68	26.66	144.5	500.	6.81	34.48	27.06	108.8	1.098
292.	9.12	34.46	0.94	2.55	26.70	141.3	600.	6.14	34.49	27.15	100.7	1.204
387.	7.79	34.44	0.70		26.89	124.2	700.	5.54	34.51	27.25	92.3	1.301
482.	6.94	34.48	0.63	3.02	27.04	110.5	800.	5.03	34.53	27.32	85.2	1.391
576.	6.29	34.48	0.70	3.27	27.13	102.9	1000.	4.20	34.55	27.43	75.8	1.554
766.	5.19	34.53	0.80	3.20	27.30	87.1	1200.	3.52	34.57	27.52	67.4	1.699
956.	4.36	34.54	1.02	3.07	27.40	77.9		,1,7	,.,,,	2.472	5144	,
1135.	3.74	34.57	1.19	3.20	27.49	69.7						
1356.	3.08	34.59	1.58	2.92	27.57	62.0						

CROMWELL DRY BULB		STATION WET BULB		ON LAT, 154- WIND SPEED			1964, 05 - 16	00 G.C.T. WEATHER 60	VI5. 6	CLOUD	TYPE 8.	COVER 7
DEPTH	TEMP.	5AL.	OXY.	P04-P	5 I GMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH
0.	25.51	34.39	5.00	0.25	22.75	511.6	0.	25.51	34.39	22.75	511.6	0.000
10.	25.50	34.38	5.02		22.74	512.5	10.	25.50	34.38	22.74	512.5	0.052
30 •△	25.46	34.38			22.75	512.1	20.	25.4H	34.38	22.75	512.4	0.103
50.△	25.42	34.38			22.77	511.7	30.	25.46	34.38	22.75	512.1	0.155
77.	23.32	34.88	5.28	0.24	23.77	416.8	50.	25.42	34.38	22.77	511.7	0.258
101.	21.99	35.06	5.10	0.27	24.29	368.5	75.	23.50	34.84	23.69	424.B	0.376
125.	20.94	35.14	5.05	0.32	24.64	335.9	100.	22.04	35.06	24.27	370.0	0.476
150.	18.68	34.92	4.55	0.40	25.06	296.1	150.	18.68	34.92	25.06	296.1	0.644
174.	15.04	34,42	3.49	1.48	25.54	250.8	200.	12.69	34.27	25.91	215.1	0.773
190.	13.58	34-29	4.21	0.71	25.74	230.9	250.	11.16	34.56	26.42	167.3	0.869
223.	11-22	34.35	2.48	2.02	26.25	183.1	300-	10.77	34.70	26.60	151.2	0.949
250.	11.16	34.56	1.26	2.17	26.42	167.3	400.	9.45	34.62	26.77	137.0	1.095
274.	10.80	34.62	1.63	2.11	26.54	157.1	500.	8.47	34.58	26.89	126.2	1.228
299.	10.78	34.70	0.28	2.59	26.60	151.4	600.	7.39	34.55	27.03	113.7	1.349
398.	9.47	34.62	0.38	2.18	26.76	137.2	700.	6.51	34.53	27.14	104-1	1.459
498.	8.49	34.53	0.33		26.89	126.4	800.	5.80	34.52	27.22	96.3	1.560
598.	7.41	34.55	0.45		27.03	113.9	1000.	4.79	34.54	27.36	83.8	1.742
798.	5.81	34.52	0.67	2.60	27.22	96.4	1200.	4.02	34.56	27.46	74.4	1-902
997.	4-80	34.54	0.90	2.44	27.36	83.9						
1196.	4.06	34.56	1.19	3.17	27.45	74.9						
1496.	3.22	34,59	1.57	3.20	27.56	64.6						

∆FROM ST DATA

Table 3.--Continued

	0	RIGINAL DA	ΓΑ		DERIVE	D DATA-	+		INTERPOLA	ATED DATA-		
CROMWELL ORY BULB		STATION WET BULB		9N LAT, 153 WIND SPEED			1964, 14 R. 18	OO G.C.T. WEATHER OI	vI5.	CLOUD	TYPE .	CDVER
DEPTH	TEMP.	5AL.	DXY.	PD4-P	SIGMA-T	OELTA	DEPTH	TEMP.	SAL.	5 I GMA-T	OELTA	OYN.OPTH
1.	25.36	34.44	4.76	0.28	22.83	503.7	0.	25.36	34.44	22.83	503.6	0.000
9	25.34	34.43	4.78	0.42	22.83	504.1	10.	25.34	34.43	22.83	504.2	0.051
30.△	25.34	34.43			22.83	505.0	20.	25.34	34.43	22.83	504.6	0.102
50. <sup>Δ</sup>	25.34	34.43			22.83	505.7	30.	25.34	34.43	22.83	505.0	0.152
77.	23.40	34.67	5.16	0.25	23.59	434.1	50.	25.34	34.43	22.83	505.7	0.254
102.	22.22	34.82	5.11	0.38	24.04	392-0	75.	23.57	34.65	23.52	440.3	0.373
126.	21.51	34.96	5.02	0.37	24.34	363.9	100.	22.30	34.81	24.01	394.7	0.479
152.	19.32	34.80	4.51	0.54	24.81	320.4	150.	19.52	34.82	24.77	323.9	0.660
177.	16.98	34.61	4.00	0.68	25.24	279.6	200.	14.85	34.39	25.56	249.5	0.804
192-	15.60	34.47	3.78	0.99	25.45	259.6	250.	11.10	34.23	26.18	190.6	0.915
227.	12.57	34.22	3.96	1.12	25.89	217.5	300.	10.73	34.59	26.53	158.4	1.903
253-	10.96	34.24	2.63	2.09	26.21	187.3	400.	9.53	34.57	26.71	142.0	1.155
279.	10.77	34.51	1.00	2.63	26.45	164.7	500.	8.42	34.54	26.87	128.2	1.291
304.	10.72	34.60	0.46	2.40	26.53	157.8	600.	7.30	34.49	27.00	116.4	1.415
405.	9.45	34.56	0.38	2.82	26.72	141.5	700.	6.48	34.48	27.10	107.2	1.528
507.	8.35	34.54	0.35	2.55	26.88	127.3	800.	5.87	34.49	27.19	99.6	1.632
608.	7.21	34.49	0.45	2.91	27-01	115.6	1000.	4.84	34.50	27.32	87.5	1.821
808.	5.83	34.49	0.61	3.18	27.19	99.0	1200.	3.98	34.52	27.43	76.8	1.988
1011.	4.79	34.50	0.88	3.42	27.32	86.9						
1183.	4.01	34.52	1.05	3.40	27.43	77.1						
1406.	3.40	34.56	1.33	2.60	27.52	68.4						

CROMWELL ORY BUL8		STATION WET RULB				, NOV. 10, 07 8A		00 G.C.T. WEATHER 02	vis.	7 CLOU	TYPE 8,	COVER 5
OEPTH	TEMP.	5AL.	DXY.	PD4-P	51GMA-T	DELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELIA	DYN.OPTH
0.	25.38	34.56	4.79	0.34	22.91	495.6	0.	25.38	34.56	22.91	495.6	0.000
11.	25.42	34.57	4.88	0.29	22.91	496.5	10.	25.42	34.57	22.91	496.4	0.050
30.△	25.40	34.59			22.93	495.2	20.	25.42	34.58	22.92	496.0	0.100
50-△	25.38	34.59			22.94	495.4	30.	25.40	34.59	22.93	495.2	0.150
75.	25.36	34.59			22.94	495.8	50.	25.38	34.59	22.94	495.4	0.250
105.	22.42	34.87	5.14	0 - 27	24.02	393.9	75.	25.36	34.59	22.94	495.8	0.374
130.	21.45	34.98	4.92	0.30	24.38	361.0	100.	22.95	34.82	23.83	412.0	0.489
155.	20.64	35.03	4.73	0 - 40	24.63	337.2	150.	20.80	35.03	24.59	341.5	0.679
185.	19.42	34.96	4.39	0.80	24.90	312.5	200.	18.84	34.90	25.00	303.4	0.841
203.	18.70	34.88	4.33	0.47	25.02	301.2	250.	15.12	34.51	25.59	248.3	0.980
230.	16.49	34.67	4.40	1.13	25.40	265.8	300.	11.89	34.21	26.02	207.3	1.095
255.	14.80	34.47	4.35	0.92	25.63	244.5	400.	8.24	34.12	26.57	154.7	1.278
276.*	13.42*	34.33	4.49	0.96	25.81	227.1	500.	6.79	34.21	26.85	128.8	1.421
283.	13.02	34.29	4.58	1.02	25.86	222.4	600.	5.93	34.31	27.04	110.6	1.542
310.	11.22	34.17	3.91	1.51	26.11	198.3	700.	5.45	34.33	27.11	104.7	1.651
408.	8.12	34.13	2.96	1.88	26.59	152.3	800.	4.95	34.46	27.27	89.7	1.749
510.	6.73	34.21	1.52		26.85	128.0						
518.*	6.69	34.20	1.75	2.76	26.85	128.3						
610.	5.82	34.34		3.26	27.08	107.4						
813.	4.90	34.48	1.04	3.4R	27.30	87.6						
TEMPERATI	URE ERROI	R IERM AT	100. HET	ERS 15 0.	12							
		R TERM AT	700. MET									
SALINITY			700. MEI									

CRDMWELL ORY BUL8		STATION WET RULB			3-57W LDNG D 22, 01R.		1964, 09 R. 20	00 G.C.T. WEATHER 00	V15.	CLDUC	TYPE .	CDVER
DEPIH	TEMP.	SAL.	OXY.	P04-P	51GMA-T	DELTA	DEPTH	TEMP.	5AL.	SIGMA-T	DELTA	DYN. OPTH.
0.	24-88	34.71	4.R3	0.33	23.18	470.2	0.	24.BR	34.71	23.18	470.2	0.000
10.	24.86	34.71	4.84	0.38	23.19	470.0	10.	24-86	34.71	23.19	470.0	0.047
30.∆ 50.	24.86	34.71			23.19	470.B	20.	24.86	34-71	23.19	470.3	0.095
50. <sup>Δ</sup>	24.86	34.71			23.19	471.6	30.	24.86	34.71	23.19	470.8	0.142
77.	23.58	34.94	5.09	0.27	23.74	419.7	50.	24.86	34.71	23.19	471-6	0.237
102.	22.29	35.00	5.00	0.32	24.16	380.9	75.	23.70	34.92	23.69	424.4	0.350
127.	20.81	34.95	4.74	0.38	24.53	346.3	100.	22.40	35.00	24.13	383.8	0.452
153.	19.24	34.93	4.38	0.52	24.93	309.1	150.	19.36	34.93	24.89	311.9	0.627
155.*	19.22*	34.93	4.38	0.57	24.93	308.7	200.	16.20	34.58	25.40	265.2	0.772
177.	17.94	34.79	4.25	0.60	25.14	288.7	250.	12.51	34.21	25.89	218.0	0.894
192.	16.76	34.65	4.23	0.77	25.32	272.2	300.	10.28	34.14	26.26	183.7	0.996
225.*	14.13*	34.34	3.98	1.16	25.67	239.3	400-	8.19	34.16	26.61	151.0	1.164
227.	13.92	34.32	3.96	1.04	25.70	236.5	500.	6.77	34.16	26.81	132.1	1.307
253.	12.40	34.20	4.08	1.15	25.91	216.4	600.	5.73	34.17	26.95	118.7	1.434
280.	10.98	34.14	4.25	1.28	26.13	195.6	700 •	5.05	34.25	27.10	105.5	1.547
309.*	10.02	34.15	3.72	1.68	26.31	179.1	800.	4.53	34.33	27.22	94.0	1.648
405.*	8.12	34.16	2.77	2.20	26.62	150.0	1000.	3.96	34.50	27.41	76.5	1.821
603.*	5.70	34.17	1.16	3.34	26.96	118.4	1200.	3.42	34.54	27.50	68.6	1.968
1012.	3.95	34.51	1.16	3.08	27.42	75.6	1500.	2.80	34.58	27.59	60.2	2.164
1212.	3.39	34.54	1.33	2.60	27.50	68.3						
1512.	2.78	34.58	1.68	3.05	27.59	60.1						

TEMPERATURE ERROR TERM AT 700. METERS 15 0.11 TEMPERATURE ERROR TERM AT 800. METERS 15 0.15

APROM BT DATA
\*INTERPOLATED DATA

Table 3.--Continued

	C	RIGINAL DA	TA		DERIVE	D DATA	-	<del></del>	INTERPOL	ATED DATA-		
CROMWELL DRY BULB		STATION WET BULB		IN LAT, 15 WIND SPEE	3-56W LONG D 20. OIR.		1964, 19	00 G.C.T. WEATHER 03	VIS.	7 CLOU	TYPE 6.	COVER 7
DEPTH	TEMP.	SAL.	DXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH
0.	24.64	34.85	4.99	0.24	23.36	453.2	0.	24.64	34.85	23.36	453.2	0.000
11-	24.67	34.84	4.91		23.34	455.2	10.	24-67	34.84	23.34	455.1	0.046
30.	24.66	34.85			23.35	455.0	20.	24.68	34.84	23.34	455.8	0.092
50.	24.52	34.89			23.42	448.9	30.	24.66	34.85	23.35	455.0	0.137
75.△	24.22	34.96			23.57	436.2	50.	24.52	34.89	23.42	448.9	0.229
106-	22.87	35.20	4.85	0.20	24.14	382.4	75.	24.27	34.96	23.57	436.2	0.340
133.	21.70	35.26	5.04	0.22	24.52	347.5	100.	23.17	35.15	24.02	393.8	0.445
159.	20.71	35.23	4.96	0.26	24.77	324.7	150.	21.06	35.25	24.69	331.9	0.627
186.	19.47	35.12	4.82	0.27	25.01	302.2	200.	18.59	34.98	25.13	291.6	0.785
212.	17.86	34.85	4.63	0.42	25.21	283.7	250.	15.78	34.59	25.50	256.9	0.923
237.	16-87	34.72	4.59	0.47	25.35	271-0	300.	12.33	34.27	25.98	210.9	1.041
265.	14.42	34.43	5.12	0.66	25.68	239.8	400.	8.83	34.06	26.43	168.2	1.232
291.	12.71	34.30	4.95	0.89	25.93	215.9	500.	6.51	34.10	26.80	133.1	1.384
316.	11.76	34.23	5.01	0.88	26.06	203.8	600.	5-46	34.20	27.01	112.7	1.508
420.	8.23	34.04	3.86	1.20	26.51	160.8	700.	4.97	34.31	27.15	99.8	1.616
523.	6-16	34.19	1.62	2.67	26.87	126.3	600.	4.64	34.41	27.27	89.5	1.711
627.	5.31	34.23	1.01	2.89	27.05	109.2	1000.	4.02	34.51	27.42	76.2	1.879
834.	4.56	34.44	1.00	2.55	27-30	86.6	1200.	3.46	34.55	27.51	68.1	2.025
1038.	3.90	34.52	1.17	3.02	27.44	74.5	1500.	2.83	34.60	27.60	59.4	2.219
1242.	3.36	34.56	1.41	2.73	27.52	66.7						
1549.	2.75	34.60	1.70	3.02	27.61	58.5						

CROMWELL BJLB YAC		STATEON WET BULB		BN LAT, 153 WIND SPEED				O G.C.1. WEATHER 20	VI5.	7 CLJU0	TYPE 7.	COVER 7
DEPTH	IEMP.	5AL.	DXY.	PD4-P	S1GMA-T	DELTA	DEPIH	TEMP.	SAL.	51GMA-T	DELTA	DYN.UPIH.
0.	24.10	35.17	4.70	0.39	23.75	414.9	0.	24.10	35.17	23.76	414.8	0.000
9	24.12	35.17	4.66	0.24	23.75	415.7	10.	24.12	35.17	23.76	415.7	0.042
50.∆ 75.∆ 100.∆	24.06	35.17			23.77	415.6	20.	24.11	35.17	23.76	416.0	0.084
75.⁴	24.04	35.17			23.78	416.0	30.	24.10	35.17	23.76	416.0	0.126
100.	24.02	35.17			23.76	416.4	50.	24.06	35.17	23.77	415.6	0.209
123.	21.82	35.23	4.84	0.28	24.44	354.6	75.	24.04	35.17	23.78	416.0	0.314
148.	20.73	35.12	4.59	0.33	24.68	332.7	100.	24.02	35.17	23.78	416.4	0.419
172.	19.40	35.00	4.50	0.35	24.94	308.6	150.	20.62	35.11	24.70	330.7	0.607
186.	18.64	34.92	4.48	0.42	25.07	296.3	200.	17.83	34.83	25.20	284.1	0.762
219.	16.58	34.69	4.48	0.59	25.39	266.1	250.	14.24	34.45	25.73	234.4	J.893
245.	14.47	34.47	4.36	0.71	25.70	237.3	300.	12.33	34.30	26.00	208.6	1.005
270.	13.51	34.38	4.43	0.96	25.83	225.1	400.	9.07	34.10	26-42	169.0	1.195
294.	12.56	34.32	4.69	0.95	25.97	211.6	500.	6.92	34.06	26.72	141.2	1.352
393.	9.26	34.11	4.31	1.25	26.40	171.2	600.	5.50	34.16	26.97	116.5	1.462
492.	7.06	34.06	2.86	2.17	26.69	143.4	700.	4.83	34.27	27.14	100.8	1.592
591.	5.5A	34.15	1.35	2.75	26.96	118.2	800.	4.53	34.38	27.26	90.5	1.688
790.	4.56	34.37	0.84	2.60	27.25	91.3	1000.	4.03	34.49	27.40	78.3	1.859
987.	4.07	34.48	1.22	3.12	27.39	79.1	1200.	3.41	34.55	27.51	67.5	2.007
1185.	3.46	34.55	1.28	3.07	27.50	68.2						
1453.	2.82	34.58	1.65	3.16	27.59	60.2						

CROMWELL ORY BULB		STATION WET BULB			1- OW LONG. 0 19, DIR.		1964, 236 R. 23	OO G.C.T. WEATHER 02	VI5.	7 CLCUI	TYPE 6:	COVER 7
DEPTH	TEMP.	SAL.	OXY.	P04-P	51GMA-T	DELTA	DEPTH	TEMP.	5AL.	SIGNA-T	DELTA	OYM.DPTH
0.	23.73	35.24			23.92	399.3	0.	23.73	35.24	23.42	399.3	0.000
9.,	23.74	35.24			23.92	399.9	10.	23.74	35.24	23.92	400.D	0.040
9. 50. 75.	23.74	35.24			23.92	401.5	20.	23.74	35.24	23.92	400.5	0.081
75.	23.73	35.24			23.92	402.2	30.	23.75	35.24	23.92	400.9	0.121
95.	21.22	35.19			24.60	338.5	50.	23.74	35.24	23.92	401.5	0.202
120.	20.46	35,19			24.80	319.7	75.	23.73	35.24	23.92	402.2	0.303
137.	19.88	35.20			24.96	304.9	100.	20.97	35.19	24.66	332.3	0.396
165.	19.17	35.10			25.07	295.5	150.	19.55	35.17	25.03	299.5	0.555
181.	18.65	35.02			25-14	289.2	200.	17.41	34.8L	25.29	275.3	0.700
214.	16-22	34.63			25.43	262.2	250.	13.49	34.29	25.77	230.6	0.27
233.	14.48	34.40			25.64	242.3	300.	11.60	34.24	26.10	199.6	0.736
261.	13.01	34.26			25.84	223.8	400.	9.08	34.10	26.42	169.5	1.122
284.	12.10	34.26			26.02	207.1	500.	6.87	34.03	26.70	142.9	1.279
382.	9.54	34.12			26.36	174.8	600.	5.55	34-11	26.93	120.6	1.412
483.	7.18	34.03			26.65	147.2	700.	4.85	34.25	27.12	102.7	1.525
575.	5.78	34.08			26.88	125.7	800.	4.50	34.39	27.27	89.5	1.622
772.	4.60	34.36			27.24	92 - 4	1000.	3.94	34.50	27.42	76.1	1.790
971.	4.01	34.49			27.40	77.5	1200.	3.45	34.56	27.51	67.3	1.935
1170.	3.53	34.54			27.49	69.7						
1471.	2.88	34.59			27.59	60.3						

Table 3.--Continued

	——с	RIGINAL DA	ΤΔ		DERIVE	D DATA-	+		INTERPOL	ATED DATA-		
CROMMETT DRA BATR		STATION WET BULB		94 LAY, 150 WIND SPEED			1964, 09 R. 21	CO G.C.T. WEATHER 60	VI5.	CLOUC	TYPE ,	COVER
OEPTH	TEMP.	51L.	CXY.	P04-P	S1GMA-T	DELTA	DEPTH	TEMP.	SAL.	51GMA-T	CELTA	CYN. DPTH
0.	24.04	35.02			23.67	423.9	0 -	24.04	35.02	23.67	423.9	0.000
9.	24.12	35.03			23.65	425.8	10.	24.12	35.03	23.65	425.9	0.043
30-△	24.12	35.04			23.66	425.9	20.	24.14	35.04	23.65	426.2	0.086
50.△	24.12	35.05			23.6€	425.9	30.	24.12	35.04	23.66	425.9	0.129
75.△	24.12	35.05			23.66	426.9	50.	24.12	35.05	23.66	425.9	0.214
100-△	24.02	35.08			23.72	422.9	75.	24.12	35.05	23.66	426.9	0.322
121-	22.23	35.15			24.29	369.2	100-	24.02	35.08	23.72	422.9	0.429
144-	21.52	35.18			24.51	348.9	150 -	21+34	35.20	24.57	343.0	0.622
168.	20.76	35-23			24.75	326.3	200.	19.02	35.00	25.04	300-1	0.784
182.	20.24	35.19			24.86	316.4	250.	14.69	34.45	25.63	243.5	0.921
215.	17.71	34.80			25.21	283.9	300.	11.67	34.15	26.01	207.8	1.035
241.	15.23	34.51			25.56	250.2	400-	8+31	34.09	26.53	158.2	1.219
265.	13.98	34.36			25.74	233.8	500.	7.20	34.26	26.83	130.7	1.365
289.	12.26	34.19			25.93	215.4	600.	6.29	34.37	27.04	111.6	1.488
385.	8.60	34.07			26.47	163.6	700.	5.41	34.40	27.17	48 . B	1.594
482.	7.34	34.23			26.79	134.7						
579.	6.68	34.37			26.99	116.5						
774.	4.75	34.37			27.23	93.5						

TEMPERATURE ERPER TERM AT 600. METERS IS 0.14 TEMPERATURE ERROR TERM AT 700. METERS IS 0.11

CROMWELL ORY BULB		STATION HET RULB		BN LAT, 150 WIND SPEED		, NCV. 13, 08 BAF	1964, 19 R. 2C	00 G.C.T. WEATHER 16	V15.	6 CLOU	TYPE 6,	COVER 8
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN-DPTH.
0.	24-19	35.05			23.64	426.0	0.	24-19	35.C5	23.64	426.0	0.000
11.	24-18	35.05			23.65	426.1	10.	24.18	35.05	23.65	426.l	0.043
30.△	24.18	35.05			23.65	426.9	20.	24.18	35.05	23.65	426.4	0.086
50.	24.18	35.05			23.65	427.6	30.	24-18	35.05	23.65	426.9	0.129
76.	22.97	35.12			24.05	389.8	50.	24.18	35.05	23.65	427.6	0.215
100-	21.90	35.12			24.36	361.7	75.	23.03	35.12	24.03	391.5	0.318
124.	21.30	35.22			24.60	339.5	100.	21.90	35.12	24.36	361.7	0.413
151.	19.89	35.01			24.82	319.4	150.	19.95	35.02	24.81	320.1	0.585
174.	18.65	34.89			25.04	298.3	200.	16.99	34.67	25.28	276.1	0.735
189.	17.80*	34.76			25.16	288.0	250.	12.86	34.23	25.R4	222.8	0.861
222.	15.17	34.49			25.56	249.9	300.	10.33	34.11	26.22	187.4	C.964
248.	12.99	34.24			25.83	224.6	400.	7.55	34.03	26.60	151.3	1.135
274.	11.52	34.16			26.05	203.6	500-	5.74	34.07	26.87	125.0	1.274
298.	10.41	34.11			26.21	188.4	600.	5.22	34.24	27.07	106.8	1.392
395.	7.67	34.03			26.58	152.8	700.	4.7B	34.36	27.21	93.8	1.493
493.	5.8C	34.06			26.86	126.5	£00.	4.42	34.44	27.32	84.6	1.583
591.	5.26	34.23			27.06	108.2	1000-	3.90	34.53	27.44	73.5	1.743
801.	4.42	34.44			27.32	84.5	1200.	3.41	34.56	27.52	67.0	1.885
1003.	3.89	34.53			27.45	73.4	1500.	2.77	34.60	27.61	58.4	2.076
1203.	3.40	34.56			27.52	66.9						
1504.	2.76	34.60			27.61	58.4						

CROMWELL ORY BULB		STATION WET BULB		9N LAT, 151 WING SPEED			1964, 04 R. 15	00 G.C.T. WEATHER 02	VI5.	6 CLOUE	TYPE .	COVER 8
DEPTH	TEMP.	SAL.	UXY.	PU4-P	SIGMA-T	DELTA	OEPTH	TEMP.	SAL.	S1GMA-T	OELTA	OYN.OPTH.
0.	24.65	34.69			23-23	465.0	0.	24.65	34.69	23.23	465.0	0.000
12.	24.70	34.70			23.23	466.2	10.	24.69	34.70	23.23	466.0	0.047
12. 30. 50. 75.	24.78	34.71			23.21	468.5	20.	24.74	34.70	23.22	467.3	0.094
50. <sup>Δ</sup>	24.78	34.72			23.22	468.6	30.	24.78	34.71	23.21	468.5	0.141
75.△	24.52	34.81			23.36	455.6	50.	24.78	34.72	23.22	468.6	0.235
99.	23.09	35.05			23.97	399.0	75.	24.52	34.81	23.36	455.6	0.352
123.	21.72	35.11			24.40	358.5	100.	23.03	35.06	23.99	397.0	0.459
148.	20.44	35.02			24.68	332.5	150.	20.41	35.03	24.70	331.0	0.643
173.	19.85	35.10			24.90	312.7	200.	17.68	34.79	25.21	283.3	0.798
187.	18.75	34.94			25.06	297.6	250.	12.84	34.25	25.87	220.7	0.925
221.	15.77	34.55			25.47	258.4	300.	10.73	34.16	26-19	190.4	1.028
247.	13.04	34.27			25.84	223.3	400.	8.31	34.16	26.59	152.8	1.201
272.	11.69	34.18			26.03	205.2	500.	6.58	34.22	26.88	124.9	1.342
330.	10.00	34.17			26.32	177-7	600.	5.78	34.33	27.08	107.3	1.459
399.	8.33	34.16			26.59	153.1	700.	5.44	34.44	27.20	96.6	1.562
538.	6.14	34.26			26.97	116.7	800.	4.99	34.48	27.29	88.3	1.655
678.	5.54	34.42			27-17	98.7	1000.	4.21	34.52	27.41	77.6	1.823
817.	4.92	34.49			27.30	87.2						
1030.	4.10	34.52			27-42	76.9						

ΔFROM 8T OATA \*INTERPOLATED GATA

Table 3. -- Continued

	C	RIGINAL DA	ΤΔ		DERIVE	D DATA			INTERPOL	ATED DATA-		
CROPWELL DRY BULB		STATIEN WET BULP		ON LAT, 151 WING SPEED			1964, 14 R. 16	CO G.C.T. WEATHER 01	V15.	CLOU	TYPE .	COVER
OEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-I	CELTA	OFPIH	TEMP.	SAL.	SIGMA-T	ΓELTA	OYN.CPTH
C .	25.15	34.09			22.63	522.7	0.	25.15	34.09	22.63	522.7	0.000
11.	25.14	34.09			22.63	522.9	10.	25.14	34.09	22.63	522.8	0.053
30.△	25.14	34.09			22.63	523.6	20.	25.14	34.07	22.61	525.0	0.105
51.	25.09	34.55			23.00	489.6	30.	25.14	34.09	22.63	523.6	0.158
77.	23.09	35.01			23.94	401.0	50.	25.10	34.52	22.97	492.0	0.261
126.	20.89	35.16			24.66	333.2	75.	23.27	34.98	23.86	408.0	0.374
153.	19.62	35.09			24.95	306.9	100.	21.94	35.16	24.38	359.B	0.471
177.	18.00	34.85			25.18	285.8	150.	19.78	35.11	24.92	309.6	0.639
192.	16.64	34.65			25.35	269.5	200.	15.73	34.53	25.47	258.1	0.782
227.	12.80	34.24			25.86	220.4	250.	11.24	34.23	26.15	193.0	0.896
254.	11.04	34.24			26.20	188.7	300.	9.72	34.36	26.52	158.2	0.985
279.	10.14	34.32			26.42	167.9	400.	8.64	34.47	26.78	135.2	1.133
305.	9.64	34.37			26.54	156.5	500.	7.38	34.47	26.97	117.6	1.260
406.	8.59	34.47			26.79	134.4	€00.	6.46	34.46	27.09	107.0	1.374
506.	7.30	34.47			26.98	116.8	700.	5.76	34.48	27.19	97.5	1.477
608.	6.40	34.46			27.10	106.3	.009	5.19	34.51	27.28	89.2	1.571
809.	5.15	34.51			27.29	8.86	1000.	4.37	34.53	27.39	79.3	1.742
1010.	4.34	34.53			27.40	78.9	1200.	3.73	34.56	27.48	71.0	1.894
1210.	3.70	34.56			27.49	70.6	1500.	2.93	34.60	27.59	60.5	2.094
1511.	2.91	34.60			27.60	60.2	2000.	2.14	34.64	27.70	50.3	2.376
1949.	2.19	34.64			27.69	50.9	2500.	1.92	34.66	27.74	46.9	2.623
2447.	1.85	34.66			27.73	47.2	3000.	1.62	34.68	27.77	44.5	2.P57
2946.	1.66	34.68			27.76	44.9						
3943.	1.48	34.70			27.79	43.7						

CROMWELL ORY BULB		STATION WET BULB		WIND SPEED			1964, 01 - 14	00 G.C.T. WCATHER 16	vIS.	7 CLOU	TYPE 7,	COVER 9
DEPTH	TEMP.	SAL.	DXY.	P04-P	51GMA-T	CELTA	OEPTH	TEMP.	SAL.	SICMA-T	OELTA	DYN.OPTH.
0.	25.47	33.91			22.32	552.2	0.	25.47	33.81	22.32	552.2	0.000
9.,	25.43	33.81			22.33	551.4	10.	25.43	33.81	22.33	551.4	0.056
30.△	25.38	33.81			22.35	550.8	20.	25.40	33.81	22.34	551.1	0.111
50.△	25.32	33.84			22.39	547.6	30.	25.38	33.81	22.35	550.8	0.167
74.	21.96	34.51			23.88	406.4	50.	25.32	33.84	22.39	547.6	0.277
98.	18.27	34.56			24.89	310.6	75.	21.80	34.52	23.93	401.5	0.397
124.	15.13	34.43			25.52	250.5	100.	18.01	34.55	24.95	305.0	C-486
148.	12.60	34.34			25.98	207.2	150.	12.44	34.34	26.01	204.5	0.614
172.	10.99	34.30			26.25	181.4	200.	9.99	34.31	26.43	164.7	0.707
187.	10.09	34.23			26.36	171.8	250.	9.59	34.45	26-61	148.7	0.786
221.	10.14	34.47			26.53	155.7	300.	9.18	34.48	26.70	140.9	0.859
246.	9.65	34.45			26.60	149.6	400.	7.92	34.45	26.87	125.5	0.994
271.	9.35	34.46			26.66	144.5	500.	6.89	34.46	27.03	111.4	1.113
296.	9.22	34.48			26.7C	141.5	600.	6.09	34.47	27.15	101.1	1.220
393.	8.00	34.45			26.86	126.6	700.	5.44	34.49	27.24	92.2	1.318
489.	6.98	34.46			27.02	112.7	.008	4.91	34.51	27.32	85.2	1.408
586.	6.19	34.47			27.13	102.4	1000.	4.14	34.53	27.42	76.0	1.571
777.	5.02	34.51			27.31	86.5	1200.	3.62	34.56	27.50	69.4	1.718
971.	4.22	34.53			27.41	77.1						
1163.	3.77	34.56			27.4A	71.1						
1455.	3.14	34.59			27.57	63.4						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.15

CROMWELL ORY BULS		STATION WET BULB			0-57W LCNG			CO G.C.T. WEATHER 03	V15.	CLOUG	TYPE ,	COVER
OEPTH	TEMP.	SAL.	OXY.	P04-P	51GMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.CPTH
0.	25.67	34.17			22.53	532.2	0.	25.67	34.17	22.53	532.2	0.000
10.	25.63	34.17			22.54	531.4	10.	25.63	34.17	22.54	531.4	0.054
30. <sup>Δ</sup>	25.62	34.17			22.55	531.9	20.	25.63	34.17	22.54	532.0	0.107
50. <sup>4</sup>	25.44	34.22			22.04	523.8	30+	25.62	34.17	22.55	531.9	0.161
77.	21.04	34.66			24.24	371.4	50.	25.44	34.22	22.64	523.8	0.267
102.	19.21	34.77			24.81	319.2	75.	21.40	34.63	24.12	383.4	0.361
127.	14.76	34.40			25.58	245.1	100.	19.36	34.78	24.78	321.5	0.470
153.	12.36	34.25			25.96	209.5	150.	12.56	34.26	25.92	212.6	0.605
177.	10.78	34.22			26.23	183.9	200 •	9.65	34.18	26.39	168.4	0.701
191.	10.05	34.21			26.35	172.7	250.	9.20	34.36	26.61	148.9	0.781
226.	9.00	34.17			26.49	159.5	300.	8.76	34.46	26.76	135.6	0.852
253.	9.24	34.39			26.62	147.6	400 •	8.03	34.55	26.93	120.1	C.981
278.	9.09	34.46			26.70	140.5	500.	7.14	34.53	27.05	109.7	1.097
304.	8.69	34.46			26.76	134.8	60C.	6.43	34.52	27.14	102.2	1.204
404.	8.01	34.55			26.94	119.6	700.	5.77	34.52	27.23	94.5	1.304
505.	7.09	34.53			27.06	109.3	.008	5.19	34.53	27.30	87.5	1.396
606.	6.39	34.52			27.14	101.7	1000.	4.40	34.55	27.41	78.2	1.563
807.	5.15	34.53			27.31	87.1	1200.	3.74	34.57	27.49	70.4	1.714
1007.	4.38	34.55			27.41	77.9	1500.	3.04	34-60	27.58	61.7	1.915
1208.	3.72	34.57			27.49	70.1						
1509.	3.02	34.60			27.59	61.5						

Table 3.--Continued

	0	RIGINAL DA	TAAT		+DERIVE	D DATA	+		INTERPOL	ATED DATA-		
CROMWELL ORY BULB		STATION WET BULB			0-53W LONG 0 15, DIR.		1964, 19 R. 14	OO G.C.T. WEATHER 01	vis.	8 CLOUG	TYPE 4,	COVER 7
OEPTH	TEMP.	SAL.	OXY.	P04-P	S1GMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH
0.	25.89	33.62			22.05	578.3	0.	25.89	33.62	22.05	578.3	0.000
10.	25.88	33.62			22.05	578.4	10.	25.88	33.62	22.05	578.4	0.058
20.△	25.88	33.62			22.05	578.8	20.	25.88	33.62	22.05	578.8	0.117
30.△	25.88	33.62			22.05	579.2	30.	25.8R	33.62	22.05	579.2	0.175
50.	22.92	34.66			23.72	420.6	50.	22.92	34.66	23.72	420.6	0.276
75.	20.94	34.91			24.46	350.7	75.	20.94	34.91	24.46	350.7	0.373
100.	15.49	34.49			25.49	253.1	100.	15.49	34.49	25.49	253.1	0.449
124.	12.82	34.26			25.87	216.7	150.	11.42	34.28	26.15	190.5	0.561
149.	11.45	34.27			26.14	191.3	200 •	10.96	34.61	26.50	159.0	0.649
173.	11.10	34.44			26.34	173.2	250.	10.15	34.61	26.64	146.1	0.726
187.	11.13	34.56			26.43	165.3	300.	9.64	34.62	26.74	138.0	0.797
221.	10.55	34.62			26.58	151.6	400-	8.67	34.60	26.88	126.1	0.930
247.	10.18	34.61			26.64	146.6	500.	7.61	34.55	27.00	115.5	1.052
297.	9.67	34.62			26.73	138.4	600.	6.72	34.53	27.11	105.6	1.164
394.	8.73	34.60			26.87	126.8	700.	6.03	34.52	27.19	98.2	1.267
492.	7.69	34.55			26.99	116.3	600-	5.48	34.52	27.26	91.9	1.363
589.	6.80	34.53			27.10	106.5	1000-	4.53	34.55	27.39	79.7	1.537
787.	5.55	34.52			27.25	92.8	1200.	3.84	34.57	27.49	71.2	1.689
983.	4.60	34.55			27.39	80.5						
1179.	3.94	34.57			27.47	72.6						
1477.	3.18	34.60			27.57	63.3						

CROMWELL ORY BULB		MET BULB			L- OW LCNG, D 10, DIR.		1964, 05 1. 13	OO C.C.T. WEATHER OZ	VIS.	CLOUG	TYPE ,	COVER
OEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN.DPTH
0-	25.68	33.77			22.23	561.3	0-	25.68	33.77	22.23	561.3	0.000
8.	25.69	33.78			22.23	561.2	10.	25.74	33.78	22.21	563.2	0.057
20.△	25.62	33.83			22.29	556.0	20.	25.62	33.83	22.29	556.0	0.113
30•△	24.20	34.12			22.94	494.5	30.	24.20	34.12	22.94	494.5	0.166
48.	17.56	34.63			25.12	287.3	50.	17-08	34.63	25.23	276.3	0.244
75.	13.29	34.46			25.94	209.7	75.	13.29	34.46	25.94	209.7	0.305
99.	12.02	34.64			26.32	173.2	100.	11.99	34.64	26.33	172.3	0.353
125.	11.45	34.71			26.49	15R.4	150.	11.16	34.73	26.56	152.4	0.435
150.	11-16	34.73			26.56	152.4	200.	10.59	34.73	26.66	143.3	0.509
175.	10.90	34.74			26.61	147.7	250.	10.12	34.72	26.73	137.5	0.580
190.	10.72	34.74			26.64	144.9	300.	9.83	34.72	26.78	133.8	0.648
224.	10.30	34.72			26.70	140.0	400.	9.03	34.66	26.87	127.0	0.780
250.	10-12	34.72			26.73	137.5	500 -	8.21	34.61	26.96	119.8	0.905
276.	9.98	34.72			26.76	135.8	600.	7.22	34.57	27.07	109.6	1.020
302.	9.82	34.72			26.78	133.7	700.	6.44	34.55	27.16	101.2	1.127
403.	9.00	34.66			26.87	126.8	.009	5.80	34.55	27.24	94.1	1.226
505-	R.17	34.61			26.96	119.4	1000-	4.73	34.56	27.38	81.6	1.403
605.	7.17	34.57			27.08	109.1	1200.	3.99	34.60	27.49	71.3	1.558
807.	5.76	34.55			27.25	93.6	1500.	3.17	34.61	27.58	62.6	1.762
1010.	4.68	34.56			27.38	81.0						
1209.	3.96	34.60			27.49	70.9						
1510.	3.15	34.61			27.58	62.4						

CROMWELL ORY BULB		STATION WET BULB			7-59W LLNG 0 04, 01R.		1964, 02 1. 10	00 G.C.T. WEATHER 03	vis.	8 <b>CLOUO</b>	TYPE 6,	COVER 8
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	LETA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH
1.	25.44	33.75	4.60	0.38	22.29	555.7	0.	25.44	33.75	22.29	555.7	0.000
11.	25.42	33.77	4.74	0.37	22.31	554.1	10.	25.44	33.77	22.30	555.0	0.056
20.	25.00	33.91			27.46	539.3	20.	25.00	33.81	22.46	539.3	0.111
30.△	19.60	34.01			24.13	380.4	30.	19.60	34.01	24.13	380-4	0.157
52.	14.38	34.38	3.27	1.27	25.65	236.6	50 -	14.59	34.35	25.58	243.0	0.220
78.	12.64	34.60	0.75	2.48	26.17	187.1	75.	12.70	34.58	26.15	189.4	0.275
103.	11.66	34.70	0.37	2.73	26.44	162.4	100.	11.74	34.69	26.42	164.4	0.319
128.	11.26	34.73	0.41	2.44	26.54	153.7	150-	10.94	34.73	26.60	148.5	0.398
153.	10.90	34.73	0.34	2.12	26.60	147.9	200•	10.36	34.72	26.69	140.6	0.471
177.	10.57	34.73	0.37	2.53	26.66	142.8	250.	9.93	34.71	26.76	134.9	0.540
192.	10.43	34.72	0.44	2.79	26.68	141.5	300.	9.53	34.68	26.80	131.7	0.608
227.	10.14	34.72	0.57	2.73	26.73	137.4	400 -	8.83	34.64	26.88	125.5	0.737
253.	9.90	34.71	0.56	3.26	26.76	134.7	500.	7.97	34.59	26.98	117.4	0.860
279.	9.75	34.70	0.66	2.32	26.78	133.5	600.	6.94	34.55	27.10	107.0	0.973
303.	9.50	34.68	0.53	2.75	26.81	131.4	700.	6.13	34.54	27.19	98.2	1.077
404-	8.81	34.64	0.34	2.48	26.89	125.3	800-	5.49	34.54	27.27	90.8	1.173
507.	7.90	34.59	0.34	2.63	26.99	116.8	1000.	4.55	34.57	27.41	78.6	1.344
607.	6.87	34.55	0.41	3.11	27.10	106.3	1200.	3.85	34.58	27.49	70.9	1.495
608.	5.45	34.54	0.84	3.22	27.28	90.3	1500.	3.08	34.61	27.59	61.5	1.697
1008.	4.52	34.57	1.04	3 - 20	27.41	78.2	2000.	2.23	34.65	27.69	50.9	1.983
1208.	3.83	34.58	1.43	2.84	27.49	70.7	2500.	1.89	34.67	27.74	47.2	2.232
1509.	3.06	34.61	1.76	3.16	27.59	61-3	3C00.	1.70	34.68	27.76	45.6	2.469
2014-	2.21	34.65	2.27	3.14	27.70	50.7	4000.	1.46	34.70	27.79	43.6	2.926
2517.	1.88	34.67	2.55	2.34	27.74	47.1						
3019.	1.69	34.68	2.90	2.76	27.76	45.6						
4009.	1.46	34.70	3.56	2.43	27.79	43.6						

Table 3.--Continued

	0	RIGINAL DA	TA		DERIVE	D DATA	+	<del> </del>	INTERPOL	ATED DATA-		<del></del>
CROMWELL ORY BULB		STATION WET BULB		ON LAT. 147			1964, 11 P. 13	00 G.C.T. WEATHER 03	vrs.	CLOUR	TYPE .	COVER
DEPIH	TEMP.	5AL.	EXY.	P04-P	SIGMA-T	DELTA	repth	fE™P.	SAL.	SIGMA-T	DELTA	OYN.OPTH
0.	25.43	33.64	4.62	0.55	22.21	563.3	0.	25.43	53.64	22.21	563.3	0.000
10-	25.49	33.65	4.70	0.55	22.20	564.7	10-	25.49	33.65	22.20	564.7	0.057
20.△	25.48	33.65			22.20	564.8	20.	25.48	33.65	22.20	564.8	0.114
30.△	25.40	33.68			22.25	560.7	30.	25.40	33.68	22.25	560.7	0.170
50.	17.92	34.53	4.12	0.97	24.95	103.0	50.	17.92	34.53	24.95	303.0	0.257
76.	15.60	34.48	3.80	1.03	25.46	255.5	75.	15.63	34.50	25.46	254.9	0.328
99.	12.18	34.30	2.15	2.11	26.03	201.1	100.	12-11	34.30	26.05	199.6	0.385
124.	11.24	34.47	1.13	2.89	26.34	172.3	150.	11.22	34.64	26.47	160.l	0.476
150.	11.22	34.64	0.36	3.24	26.47	160.1	200.	10.59	34.69	26.62	146.9	0.553
173.	11.00	34.68	0.30	2.74	26.55	153.8	250.	10.0R	34.66	26.69	141.3	0.626
188.	10.75	34.69	0.22	3.20	26.60	149.1	300-	9.45	34.64	26.78	133.7	0.695
222.	10.35	34.67	0.22	3.36	26.65	144.5	400.	8.13	34.58	26.94	119.5	0.823
248.	10.10	34.66	0.11	2.87	26.69	141.6	500.	7.14	34.52	27.04	110.7	C.939
272.	9.83	34.65	0.20	2.86	26.73	138.3	600.	6.36	34.51	27.14	101.9	1.046
296.	9.51	34.64	0.25	2.89	26.77	134.3	700.	5.70	34.51	27.23	94.3	l • 145
394.	8.20	34.58	0.45	2.64	26.93	120.1	800.	5.17	34.52	27.30	H7.8	1.237
494.	7.19	34.52	0.39	3.02	27.04	111.3	1000.	4.40	34.55	27.41	77.9	1.405
591.	6 - 42	34.51	0.63	3.29	27.13	102.7	1200.	3.75	34.57	27.50	70.0	1.555
788.	5.22	34.52	0.75	3.36	27.29	88.5						
985.	4.45	34.55	1.19	3.33	27.4C	78.6						
1182.	3.80	34.57	1-47	3.20	27.49	70.8						
1479.	3.04	34.60	1.74	3.20	27.58	61.6						

CROMWELL DRY BULB		STATION WET BULB		ON LAT, 148			1964, 21 R. 13	GO G.C.T. WEATHER 60	VIS.	B (1.0110	TVDE A.	COVER 7
0000		#E. 00E0	2,500	# 1.40 3/ CE 0				WEATTER GO	*1.5*	0 02000	1116 49	C-14CK 1
OFPIH	TEMP.	SAL.	GXY.	P04-P	51GMA-T	LELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. CPTH
l.	25.73	33.72	5.40	0.44	22.17	566.4	0.	25.73	33.72	22.17	566.4	0.000
11.	25.66	33.73	5.39	0.48	22.20	564.0	10.	25.66	33.73	22.20	564.1	0.057
30-	25.66	33.73			22.20	564.8	20.	25.65	33.73	22.21	564.0	0.114
50.△	25.66	33.73			22.20	565.5	30.	25.66	33.73	22.20	564.8	0.171
75.	21.85	34.89	5:97	0.45	24-20	376.0	50.	25.66	33.73	22.20	565.5	0.284
100.	20.40	35.01	5.53	0.48	24.68	330.5	75.	21.85	34.89	24.20	376.0	0.403
124.	17.45	34.69	4.89	0.76	25.19	282.8	100.	20.40	35.01	24.6R	330.5	0.492
151.	13.77	34.34	3.35	1.71	25.74	230.0	150.	13.89	34.35	25.73	231.8	0.634
174.	12.04	34.43	1.54	2.27	26.16	190.9	200.	11.02	34.56	26.45	163.4	0.733
189.	11.27	34.50	1.46	2.36	26.36	172.2	250.	10.54	34.67	26.62	148.3	0.912
222.	10.82	34.66	0.46	2.67	26.56	153.3	300.	9.26	34.66	26.71	140.4	0.885
748.	10.56	34.67	0.40	2.67	26.62	148.7	400-	8.79	34.60	26.86	127.9	1.020
273.	10.30	34.68	0.32	2.62	26.67	144.0	500.	7.73	34.56	26.99	116.5	1.143
298.	9.93	34.66	0.27	2.60	26.71	140.7	600.	6.79	34-52	27.09	107.4	1.256
396.	8.83	34.60	0.40	2.99	26.85	128-4	700.	5.93	34.52	27.20	97-1	1.360
495.	7.78	34.56	0.40	3.00	26.98	117.0	.003	5.23	34.53	27.30	87.3	1.453
592.	6.87	34.52	0.54	3.07	27.08	108.2	1000.	4.40	34.56	27.42	77.3	1.620
787.	5.30	34.53	0.80	3.30	27.29	89-8	1200.	3.70	34.59	27.50	69.2	1.769
984.	4.46	34.56	0.95	3.20	27.41	78.0						
1179.	3.77	34.57	1.18	3.16	27.49	70.5						
1478.	2.99	34.61	2.00	3.09	27.60	60.2						

CROMWELL ORY 8UL8		STATICA STATICA			7-59W LCNG			WEATHER 63	v15.	4 CLOUT	TYPE ,	COVER
OEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.CPTH
0.	25.56	33.76	5.62	0.79	22.26	558.5	0.	25.56	33.76	22.26	558.5	0.000
10.	25.64	34.14	5.69		22.52	533.9	10.	25.64	34.14	22.52	533.9	0.055
10.∆ 30.∆ 50.∆	25.60	34.22			22.59	527.7	20.	25.64	34.24	22.59	527.2	0.108
50.△	25.50	34.28			22.67	521.2	30.	25.60	34.22	22.59	527.7	0.162
78.	22.02	34.82	6.12	0.32	24.10	385.7	50.	25.50	34.28	22.67	521.2	0.267
100.	20.81	34.92	5.82	0.51	24.50	347.5	75.	22.43	34.76	23.93	401.1	0.383
125.	19.06	34.86	5.28	0.55	24.92	30R.8	100.	20.81	34.92	24.50	347.5	0.478
151.	15.11	34.43	3.55	2.89	25.53	250.9	150.	15.27	34.45	25.50	253.1	0.629
176.	12.76	34.44	1.73	2.17	26.03	203.7	200.	11.78	34.59	26.33	175.3	0.737
190.	12.11	34.55	1-70	2.52	26.24	183.8	250.	10.51	34.60	26.57	153.0	0.220
223.	11.20	34.61	0.67		26.45	163.7	300.	10.19	34.66	26.67	144.2	0.895
250.	10.51	34.60	0.67	2.58	26.57	153.0	400.	9.03	34.62	26.84	130.2	1.033
274.	10.40	34.65	0.30	2.41	26.63	149.0	500.	7.98	34.56	26.95	120.1	1.159
299.	10.20	34.66	0.22	2.49	26.67	144.4	600.	7.13	34.53	27.05	111.4	1.276
398.	9.05	34.62	0.18	3.21	26.83	130.4	700.	6-24	34.52	27.16	101.1	1.384
499.	7.99	34.56	0.41	2.93	26.95	120-2	ecc.	5.46	34.52	27.26	91.č	1.481
598.	7.15	34.53	0.57	2.71	27.05	111.6	1000.	4.58	14.54	27.38	81.1	1.656
797.	5.4A	34.52	1.02	2.69	27.26	92.0	1200.	3.87	34.56	27.47	72.5	1.412
996.	4.60	34.54		3.24	27.38	81.3						
1196.	3.89	34.56	1.38	3.07	27.47	72.8						
1494.	3.11	34.60	2.24	3.11	27.58	62.5						

Table 3.--Continued

		RIGINAL DA	ΤΑ		DERIVE	D DATA			INTERPOL	ATED DATA-		
CROMWELL ORY BULB		STATIEN WET BULB		SN EAT, 147 WIND SPEEC		, NCV. 18, 07 8AR	1964, 14 - 13	OO G.C.T. WEATHER OL	V15.	CFOND	TYPE ,	COVER 2
DEPTH	TEMP.	SAL.	CXY.	PU4-P	51GMA-T	DELTA	CEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH
0 -	25.06	33.86	4.91	0.59	22.48	536.7	0.	25.06	33.86	22.48	536.7	0.000
10.	25.10	33.86	5.03	0.32	22.47	538.2	10.	25.10	33.86	22.47	538.2	0.054
30 ♣	25.00	33.98			22.59	527.5	20.	25.08	33.90	22.51	535.2	0.108
50.△	24.60	34.24			22.91	498.0	30.	25.00	33.9A	22.59	527.5	0.162
52.	23.70	34.60	5.18	0.59	23.45	446.6	50.	24.60	34.24	22.91	498.0	0.265
76.	21.34	34.86	5.23	0.35	24.31	364.8	75.	21.27	34.92	24.38	358.2	0.373
101.	20.60	35.22	4.92	0.30	24.79	320.5	100.	20.62	35.21	24.78	321.7	0.459
126.	18.71	34.97	4.5∄	0.43	25.09	292.4	150.	15.14	34.45	25.54	249.8	0.603
152.	14.82	34.41		0.96	25.5₺	246.3	200.	10.84	34.19	26.19	187.7	0.713
l76.	12.07	34.19		1.39	25.97	209.1	250.	10.06	34.42	26.51	158.9	0.800
196.	11.01	34.10	3.29	1.69	26.16	191.3	300.	9.48	34.50	26.67	144.3	0.877
225.	10.15	34.30	2.05	2.22	26.4C	168.4	400.	8.02	34.49	26.89	124.0	1.012
251.	10.06	34.42	1.23	2.58	26.51	158.6	500.	7.07	34.49	27.03	111.9	1.131
277.	9.75	34.49	0.31		26.62	148.9	600.	6.26	34.50	27.14	101.4	1.239
302.	9.46	34.50	0.69	2.69	26.67	144.0	700.	5.60	34.51	27.24	93 • l	1.337
402.	7.99	34.49	0.43	2.78	26.9C	123.7	800.	5.05	34.52	27.31	86.5	1.428
503.	7.05	34.49	0.50	3.24	27.03	111.7	1000.	4.24	34.54	27.42	76.9	1.593
602.	6.25	34.50	0.55	3.16	27.15	101.3	1200.	3.62	34.57	27.50	69.0	1.741
ROL.	5.05	34.52	0.81	3.39	27.31	86.5						
995.	4.26	34.54	1.02	3.31	27.41	77.1						
1188.	3.69	34.57	1.24	3.11	27.50	69.6						
1476.	2.94	34.60	1.58	2.P6	27.59	60.3						

SALINITY ERROR TERM AT 75. METERS IS 0.05

CROMWELL ORY BULB		STATION WET BULB			7-58W LONG, 0 10, DIR.		1964, 24 R. 15	OO G.C.I. WEATHER OL	VIS.	8 Crond	TYPE 8,	COVER 2
DEPTH	TEMP.	SAL.	Γ'XΥ.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.OPTH
0.	25.06	33.94	4.7R	0.2R	22.54	530.9	0.	25.06	33.94	22.54	530.9	0.000
10.	24.78	33.94	5.01	0.27	22.63	523.2	10.	24.78	33.94	22.63	523.2	0.053
30•△	24.6A	33.94			22.66	521.l	20.	24.69	33.94	22.66	520.9	0.106
50.⁴	24.68	33.94			22.66	521.9	30.	24.68	33.94	22.66	521.l	0.158
76.	23.10	35.12	5.26	0.26	24.02	393.4	50.	24.68	33.94	22.66	521.9	0.263
97.	20.99	34.93	5.08	0.31	24.46	351.4	75.	23.19	35.08	23.96	398.9	0.379
128.	20.02	35.02	4.78	0.32	24.79	321.1	100.	20.87	34.94	24.50	347.9	0.473
153.	18.33	34.86	4.47	0.46	25.10	292 - 1	150.	18.58	34.89	25.06	295.9	0.635
177.	15.63	34.52	4.13	0.77	25.48	256.2	200.	12.85	34.26	25.87	219.5	0.765
192.	13.53	34.31	3.93	1.C2	25.77	228.5	250.	10.11	34.12	26.26	181.8	0.867
227.	11.37	34.18	3.94		26.09	198.4	300.	9.87	34.44	26.55	155.4	0.952
254.	9.96	34-12	4.10	1.60	26.29	179.1	400.	8.38	34.46	26.81	131.9	1.096
279.	10.01	34.34	1.87	2.13	26.46	164.3	500.	7.16	34.44	26.98	116.8	1.222
305.	9.82	34.45	1.02	2.24	26.57	153.6	600.	6.37	34.45	27.09	106.7	1.335
406.	8.28	34.45	0.63	2.87	26.82	131.1	700.	5.74	34.47	27.19	98.0	1.438
507.	7.09	34.44	0.54	2.93	26.99	116.0	800.	5.20	34.49	27.27	90.8	1.534
608.	6.32	34.45	0.54	2.93	27.10	106.0	1000.	4.37	34.51	27.38	80.8	1.707
809.	5.16	34.49	0.88	2.88	27.27	90.2	1200.	3.68	34.55	27.48	71.2	1.861
1011.	4.35	34.51	1.03	3.02	27.38	80.3	1500.	2.91	34.59	27.59	60.9	2.062
1211.	3.65	34.55	1.19	3.08	27.49	70.7	2000.	2.15	34-63	27.68	51.4	2.348
1512.	2.8P	34.59	1.54	3.C2	27-59	60.6	2500.	1.80	34.66	27.74	46.8	2.598
2011.	2.14	34.63	2.24	2.13	27.69	51.3	3000.	1.61	34.68	27.77	44.5	2.831
2508.	1.80	34.66	2.72	2.40	27.74	46.7	4000.	1.45	34.69	27.79	44.1	3.284
1015.	1.61	34.68	3.00	2.30	27.77	44.4	5000.	1.40	34.71	27.81	44.3	3.740
4004.	1.45	34.69	3.57	2.73	27.79	44-1						
5000.**	1.40**	34.71	4.04	2.82	27.81	44.3						

TEMPERATURE FROM TERM AT 200. METERS 15 0.10

DRY BULP		STATION :			7-59W LCNG, 0 04, DIR.		1964, 110 R. 14	OO G.C.T. WEATHER OO	v15.	ctava	TYPE ,	COVER
DEPTH	IEMP.	SAL.	CXY.	PQ4-P	SIGMA-T	DELTA	OEPTH	TEMP.	SAL.	51GMA-T	DELTA	DYN.OPTH.
0.	24.56	34.74	5.14	0.37	23.30	458.9	0.	24.56	34.74	23.30	458.9	0.000
9.Δ 30.Δ 50.Δ 75.Δ	24.57	34.73	5.12	1.61	23.29	460.2	10.	24.57	34.73	23.29	460.2	0.046
30.4	24.50	34.73			23.31	459.0	20.	24.54	34.73	23.29	460.1	0.093
50.4	24.42	34.74			23.34	456.8	30.	24.50	34.73	23.31	459.0	0.139
75.△	23.90	34.83			23.56	436.5	50.	24.42	34.74	23.34	456.8	0.231
101.	21.28	35.15	5.32	0.20	24.55	343-2	75.	23.90	34.83	23.56	436.5	0.344
124.	20.73	35.24	5.05	0.18	24.77	323.2	100.	21.38	35.14	24.51	346.7	0.442
151.	19.88	35.15	4-85	0.27	24.93	309.0	150.	19.92	35.16	24.92	309.5	0.608
174.	18.59	34.98	4.86	0.35	25.13	290.4	200.	16.63	34.68	25.38	267.l	0.753
188.	17.54	34.R2	4.88		25.27	277.6	250.	12.74	34.21	25.85	221.8	0.876
221.	15.01	34.46	4.85	0.57	25.57	248.6	300.	9.87	34.08	26.27	181.8	0.978
247.	12.93	34.23	4.86	0.80	25.83	224.1	400.	7.38	34.12	26.69	142.3	1.142
272.	11.49	34.13	4.76	1.G7	26.03	205.2	500.	5.78	34.22	26.98	114.7	1.271
296.	10.04	34.08	4.23	1.29	26.25	184.3	600.	5.16	34.30	27.12	102.1	1.381
394.	7.50	34.12	2.44	2.12	26.68	143.7	700.	4.63	34.37	27.24	91.3	1.478
473.	6.10	34-14	1.65	2.44	26.88	124-2	800.	4.44	34.48	27.35	81.5	1.566
492.	5.78	34.18	1-14	3.27	26.95	117.3	1000.	4.00	34.53	27.43	74.7	1.724
590.	5.32	34.32	0.77	3.C7	27.12	102.3						
592.	5.27	34.31	0.72	2.76	27.12	102.4						
721.	4.72	34.44	0.82	3.02	27.29	87.4						
931.	4.10	34.52	1.02	2.93	27.42	76.0						
1000.**	4.00 %	4 34.53**			27.43	74.7						

TEMPERATURE FRECK TERM AT 700. METERS IS 0.12

∆PROM BT DATA
\*\*EXTRAPOLATED DATA

Table 3.--Continued

		RIGINAL DA	ТА	+	DERIVE	D DATA-	+		INTERPOL	ATED DATA-		
GROMWELL DRY BULB		STATION WET RULB		3N LAT, 147 HINO SPEEO			1964, 19 R. 15	OO G.C.T. WEATHER 01	VIS.	8 CLCU	TYPE 8,	COVER 8
OEPIH	TEMP.	SAL.	OXY.	P04-P	51GMA~T	CELTA	CEPTH	TEMP.	SAL.	S1GMA-T	DELTA	OYN.OPTH
0.	24.19	34.81	5.14	0.24	23.46	443.3	0.	24.19	34.81	23.46	443.3	0.000
9.	24.31	34.89	5.31	0.27	23.49	441.3	10.	24.32	34.89	23.49	441.2	0.045
30- A	24-32	34.90			23.49	441.6	2G.	24.34	34.91	23.49	441.2	0.089
50.	24.26	34.91			23.52	440.0	30.	24.32	34.90	23.49	441.6	0.133
50. <sup>Δ</sup>	24.20	34.92			23.54	439.5	50.	24.26	34.91	23.52	440.0	0.222
101.	21.53	35.15*	5.45	0.60	24.48	349.7	75.	24.20	34.92	23.54	438.5	0.333
127.	20.54	35.16	5.26	0.40	24.7c	324.2	100.	21.64	35.14	24.44	353.3	0-433
152.	19.52	35.06	4.85	0.38	24.95	306.6	150.	19.61	35.07	24.94	307.9	0.599
177.	18.06	34.85	4.70	0.58	25.16	287.2	200.	16.87	34.72	25.34	270.2	0.745
192.	17.49	34.79	4.76	0.58	25.25	27P.7	250.	12.66	34.22	25.88	219.4	0.868
223.	14.77	34.46	4.85	0.61	25.62	243.7	300.	1G.39	34.09	26.20	189.5	0.971
252.	12.52	34.21	5.00	0.96	25.90	217.9	400.	7.63	34.07	26.62	149.4	1.142
280.	11.19	34.12	4.95	1.18	26.08	200.8	500.	6.26	34-18	26.89	123.6	1.280
302.	10.32	34.09	4.93	1.14	26-21	188.4	600.	5.51	34.35	27.12	102.6	1.395
402.	7.59	34.07	3.03	2.22	26.67	148.8	700.	5.03	34.43	27.24	91.8	1.493
506.	6.21	34.19	1.23	2.60	26.91	122.3	800.	4.67	34.46	27.31	86.2	1.583
607.	5.47	34.36	0.61	2.89	27.13	101-4	1 COO.	4-01	34.51	27.42	76.4	1.747
808.	4.65	34.46	2.74	3.18	27.31	85.9	1200.	3.45	34.54	27.50	69.1	1.895
1010.	3.98	34.51		2.60	27.42	76.0	1500.	2.76	34.59	27.60	59.2	2.090
1212.	3.42	34.54	1.31	3.60	27.50	68.7						
1512.	2.74	34.59	1.82	2.98	27.60	58.9						

CROMWELL DRY BULB		STATION WET BULB			7-59W LCNG 0 07, 01R.		1964, 046 R. 14	00 G.C.T. WEATHER 02	V15.	8 CLOUC	TYPE .	COVER
DEPTH	TEMP.	SAL.	CXY.	P04-P	S1GMA-T	CELTA	DEPTH	TEMP.	SAL.	51GMA-T	OELTA	DYN.DPTH
0.	24.10	34.71	5.28	0.49	23.41	447.9	0.	24.10	34.71	23.41	447.9	0.000
9.	24.01	34.70	5.31	0 . 25	23.43	446.5	10.	24.00	34.71	23.44	445.8	0.045
30.△	23.86	34.88			23.61	430.1	20.	23.92	34.78	23.52	438.6	0.090
50.△	23.78	35.00			23.73	419.9	30.	23.86	34.88	23.61	430.1	0.133
74.	23.35	35.25	5.23	0.19	24.04	390.8	50.	23.78	35.00	23.73	419.9	0.219
97.	21.78	35.23	5.44	0.22	24.47	350.4	75.	23.28	35.25	24.06	389.0	0.321
121.	21.02	35.25	5.28	0.29	24.7C	329.9	100.	21-67	35.23	24.51	347.3	0.414
145.	19.91	35.16	4.99	0.33	24.93	308.9	150.	19.72	35.14	24.96	305.7	0.578
169.	19.08	35.07	4.97	0.35	25.07	295.6	200.	17.97	34.89	25.22	282.6	0.726
183.	18.62	35.01	5.12	0.31	25.14	289.2	250.	13.52	34.27	25.74	232.7	0.856
216.	16.98	34-73	5.04	0.42	25.33	272.1	300.	10.87	34.07	26.10	199.0	0.965
239.	14.46	34.38	5.08	1.03	25.63	243.5	400.	7.61	34.05	26.60	150.9	1-142
263.	12.61	34.13	4.94	0.87	25.85	222.1	500.	6.22	34.13	26.86	127.1	1.282
286.	11.50	34.10	4.83	1.04	76.00	207.9	600.	5.49	34.25	27.04	109.9	1.402
379.	8.08	34.04	3.71	1.96	26.53	157.9	700.	5.01	34.37	27.20	95.9	1.506
473.	6.51	34.10	1.92	2.62	26.80	132.6	800.	4.65	34.46	27.31	86.1	1.598
566.	5.69	34.20	1.11	2.84	26.98	115.6	1000.	3.79	34.51	27.42	75.7	1.761
753.	4.83	34.43	0.71	2.77	27.26	89.8	1200-	3.44	34.56	27.51	67.6	1.907
940.	4.18	34.50	1.03	2.84	27.39	78.5						
1130.	3.62	34.54	1.31	2.93	27.48	70.5						
1421.	2.95	34.58	1.69	2.93	27.58	61.6						

CROMWELL ORY BULB	20.1	STATION WET BULB		7N LAT, 147 WIND SPEED			1964, 14 R. 15	OO G.C.T. WEATHER OL	VIS.	CLOUG	TYPE .	COVER
OEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	CEL TA	OEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPIH.
0-	23.29	35.13	5.18	0.32	23.97	395.0	0.	23.29	35.1.3	23.97	395.0	0.000
10.	23.32	35.13	5 - 15	0.25	23.96	396.2	10.	23.32	35.13	23.96	196.2	0.040
50.△	23.31	35.13			23.96	397.4	20.	23.33	35.13	23.96	396.8	0.080
75.△	23.30	35.13			23.97	398.1	30.	23.33	35.13	23.96	397.2	0.120
99.	21.74	35.24	5.31	0.17	24.49	348.7	50.	23.31	35.13	23.96	197.4	0.200
124.	20.50	35.24	5.14	0.22	24.83	317.3	75.	23.30	35.13	23.97	398.1	0.300
149.	19.28	35.04	4.74		25.00	302.0	100.	21.69	35.24	24.51	347.1	0.394
173.	18.16	34.90	4.83	0.40	25.17	285.8	150.	19.23	35.03	25.01	301.3	0.557
187.	17.65	34.63	4.88	0.44	25.25	279.4	200-	16.96	34.72	25.33	271.6	0.702
221.	15.64	34.54	4.66	0.75	25.49	256.3	250.	13.73	34.35	25.76	230.8	0.928
247.	13.92	34.37	4.75	0.73	25.74	233.4	300.	11.40	34.19	26.09	199.8	0.937
271.	12.52	34.26	4.93	0.87	25.93	214.7	400.	8.84	34.06	26.43	168.1	1.122
295.	11.56	34.20	5.01	0.99	26.07	201.9	500.	6.74	34.03	26.71	141.0	1.279
392.	9.03	34.07	4.46	1.60	26.41	170.5	600.	5.34	34-11	26.96	117.9	1.409
492.	6.88	34.03	2.78	2.C1	26.69	143.1	700.	4.77	34.24	27.12	102.4	1.521
588.	5.44	34.10	1.39	2.36	26.93	120.1	800.	4.55	34.36	27.24	91.8	1.619
784.	4.60	34.35	0.72	2.97	27.23	93.2	1000.	4.07	34.49	27.39	78.7	1.791
981.	4-12	34.48	1.03	2.98	27.38	79.6	1200.	3.57	34.55	27.49	69.9	1.942
1175.	3.62	34.53	1.26		27.47	71.5						
1472.	2.94	34.57	1.56	3.11	27.57	62.5						

TEMPERATURE ERROR TERM AT 700. METERS IS 0.10

AFROM BT DATA
\*INTERPOLATED DATA

Table 3.--Continued

	0	RIGINAL DA	ΤΑ		DERIVE	D DATA-			INTERPOLA	TED DATA-		
CROMWELL ORY SULS		STATICN WET HULB		ON LAT. 147- WIND SPEED			1964, 23 . 14	00 G.C.T. WEATHER 02	VIS.	CLOUD	TYPE 6.	COVER 8
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	ČEL 1A	CEPTH	TEMP.	SAL.	SIGMA-T	OELTA	UYN.OPTH
C -	22.56	35.40	5.09	0.42	24.38	355.5	0.	22.56	35.40	24.38	355.5	0.000
10.	22.56	35.39	5.04	0.41	24.36	356.6	10.	22.56	35.39	24.38	356.6	0.036
10. A	22.52	35.38			24.36	357.7	20.	22.56	35.39	24.37	357.2	0.072
75. △	22.44	35.37			24.39	357.2	30.	22.55	35.38	24.37	357.6	0.108
99.	20.98	35.30	4.97	0.19	24.75	324.4	50.	22.52	35.39	24.38	357.7	0.180
124.	20.47	35.27	5.10	0.20	24.86	314.4	75.	22.44	35.37	24.39	357.2	0.270
149.	19.84	35.20	4.98	0.57	24.98	304.3	100.	20.95	35.30	24.75	323.8	0.356
174.	18.40	34.96	4.95	0.86	25.16	287.2	150.	19.80	35.19	24.98	303.8	0.514
188.	17.35	34.79	4.93	0.68	25.29	275.3	200.	16.55	34.67	25.39	265.9	0.657
223.	15.10	34.50	4.99	0.55	25.58	247.7	250.	13.38	34.34	25.83	224.7	0.781
248.	13.47	34.35	5.01		25.81	225.9	300.	11.53	34.22	26.09	200.3	888.0
274.	12.52	34.29	5.09	0.91	25.96	212.6	400.	9.11	34.08	26.40	171.4	1.076
298.	11.59	34.22	5.04	0.99	26.08	201-0	500.	6.66	34.02	26.72	140.8	1.233
397.	9.19	34.08	4.69	1.49	26.39	172.4	600.	5.47	34.11	26.93	120.1	1.365
497.	6.71	34:02	2.79	2.16	26.71	141-6	700.	4.92	34.24	27.11	103.3	1.478
595.	5.51	34.10		2.71	26.92	121.0	800.	4.46	34.37	27.26	90.5	1.576
792.	4.49	34.36	0.75	2.A2	27.25	91.2	1000.	3.96	34.48	27.40	77.6	1.746
991.	3.98	34.48	1.04	3.64	27.40	78.0	1200.	3.50	34.54	27.50	69.3	1.895
1188.	3.51	34.53	1.36	3.02	27.48	70.3						
1483.	2.99	34.57	1.53	3.07	27.56	63.2						

CROMWELL ORY BULB		STATION WET BUEB			8- OW LONG: 0 27, 01R.		1964, OR	OO G.C.T. WEATHER O3	VIS.	CEOUC	TYPE .	COVER 8
DEPTH	TEMP.	· SAL.	OXY.	P04-P	SIGMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.OPTH.
0.	22.17	35.41	5.30		24.50	344.2	0.	22.17	35.41	24.50	344.2	0.000
12.	22.21	35.41	5.32		24.49	345.7	10.	22.20	35 - 41	24.49	345.5	0.035
50.△	22.18	35.40			24.49	347.1	20.	22.22	35.41	24.49	346.3	C.070
75.△	22.10	35.39			24.51	346.6	30.	22.22	35.41	24.48	346.9	0.104
98.	19.35	35.03	5.31		24.97	302.7	50.	22.18	35.40	24.49	347.1	0.174
126.	18.09	34.88	5.04		25-18	284.1	75.	22-10	35.39	24.51	346.6	0.262
156.	16.74	34.70	5.04		25.36	267.0	100.	19.22	35.01	24.99	300.7	0.343
176.	15.68	34.58	5.04		25.52	252.9	150.	17.02	34.74	25.33	270.5	0.487
192.	14.87	34.51	5.10		25.64	241.2	200.	14.47	34.47	25.70	236.1	0.615
225.	13.31	34.35	5.12		25.85	222.2	250.	12.41	34.28	25.97	210.4	0.727
252.	12.35	34.28	5.15		25.98	209.6	300.	11.32	34.23	26.14	195.5	0.830
277.	11.64	34.24	5.14		26.09	200.0	400.	9.11	34.10	26.42	169.3	1.014
303.	11.29	34.23	5.17	1.13	26.14	195.0	500.	6.91	34.01	26.67	144.9	1.172
403.	9.03	34.10	4.76	2.90	26.43	168.5	600.	5.54	34.06	26.89	124-1	1.308
508.	6.76	34.01	3.27	2.20	26.69	143.1	700.	4.79	34.17	27.06	108.2	1.426
606.	5.44	34.07	1.79	2.76	26.90	123.0	800.	4.37	34.28	27.20	95.7	1.529
808.	4.35	34.29	0.58		27.21	94.9	1000.	3.80	34.44	27.38	79.2	1.706
1008.	3.79	34.44	0.81	2.97	27.39	78.8	1200.	3.31	34.52	27.49	68.9	1.956
1205.	3.30	34.52	1.20	3.08	27.50	68.7	1500.	2.81	34.57	27.58	61.2	2.054
1506.	2.80	34.57	1.60	3.17	27.5A	61.1	2000.	2.12	34.63	27.69	51.0	2.339
2009.	2.11	34.63	0.85	3.29	27.69	50.9	2500.	1.74	34.67	27.75	45.2	2.584
2504.	1.74	34.67	2.47	3.69	27.75	45.2	3000.	1.56	34.68	27.77	43.7	2.911
3004.	1.56	34.68	2.99	2.56	27.77	43.7	4000.	1.49	34.70	27.79	44.0	3.260
4004.	1.49	34.70	3.62	2.20	27.79	44.0						

CROMWELL ORY BULB		STATION WET BULB			0-58W ECNG		1964, 04 R. 08	00 G.C.T. WEATHER 02	VIS.	6 CL0U0	TYPE 6,	COVER 8
OEPTH	TEMP.	SAL.	OXY.	PQ4-P	SIGMA-T	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	OELTA	OYN.DPTH.
0.	23.29	35.12			23.96	395.7	0.	23.29	35.12	23.96	395.7	0.000
10.	23.33	35.11			23.94	397.9	10.	23.33	35.11	23.94	397.9	0.040
30.△	23.24	35.19			24.03	390.4	20.	23.31	35.14	23.97	395.8	0.080
50.△	22.90	35.32			24.22	372.4	30.	23.24	35.19	24.03	390.4	0.120
76.	22.54	35.40			24.39	357.8	50.	22.90	35.32	24.22	372.4	0.196
103.	21.49	35.28			24.59	339.4	75.	22.56	35.40	24.38	358.3	0.288
126.	19.93	35.11			24.88	312.3	100.	21.64	35.30	24.56	341.9	0.377
152.	19.28	35.11			25.05	297.0	150.	19.31	35.11	25.04	297.9	0.538
176.	18.51	35.00			25.16	287.1	200.	17.55	34.83	25.27	277.5	0.683
192.	18.01	34.91			25.27	282.2	250.	14.24	34.41	25.70	236.8	0.312
227.	15.70	34.55			25.49	257.0	300.	11.73	34.18	26.02	206.A	0.924
253.	14.06	34.40			25.73	234.2	400.	9.09	34.07	26.39	171.7	1.115
278.	12.71	34.27			25.90	217.8	500.	6.86	34.03	26.70	142.9	1.274
302.	11.65	34.17			26.03	205.9	600.	5.53	34.11	26.93	120.3	1.407
403.	9.04	34.07			26.40	170.9	700.	4.79	34.23	27.11	103.9	1.520
506.	6.74	34.03			26.71	141.4	600-	4.38	34.33	27.24	92.0	1.619
605.	5.48	34.12			26.94	119.3	1000.	3.95	34.48	27.40	78.1	1.791
806.	4.37	34.34			27.24	91.4	1200.	3.51	34.54	27.49	69.8	1.941
1008.	3.94	34.48			27.40	77.7	1500.	2.91	34.57	27.57	62.3	2.142
1209.	3.49	34.54			27.49	69.5						
1510.	2.89	34.57			27.57	62.2						

Table 3.--Continued

		RIGINAL DA	ΤΑ	1	DERIVED DATA			INTERPOLATED DATA						
CRCMWELL DRY BULB		STATION WET BULB		IN LAT, 153 WINO SPEED			1964, 20 R. 11	OO G.C.T. HEATHER OI	V15.	7 CLOUE	TYPE 6,	COVER 6		
0EPTH	TEMP.	5AL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	PELTA	OYH.OPTH		
0.	23.31	35.16	5.02		23.99	393.3	0.	23.31	35.16	23.99	393.3	0.000		
11.	23.29	35.16			23.99	393.2	10.	23.29	35.16	23.99	393.3	0.040		
77.	22.43	35.25	5.05		24.31	365.7	20.	23.27	35.17	24.01	392-1	0.079		
102.	21.56	35.23	4.97		24.53	344.8	30.	23.21	35.19	24.03	389.8	0.119		
133.	20.98	35.22	4.81		24.69	331.5	50.	22.98	35.22	24.12	382.2	0.196		
154.	20.22	35.18	4.80		24.86	315.6	75.	22.48	35.25	24.29	367.2	0.291		
178.	19.11	35.01	4.67		25.02	301.0	100.	21.63	35.23	24.52	346.4	0.381		
193.	18.54	34.95	4.72		25.12	292.0	150.	20.38	35.19	24.83	318.7	0.548		
233.	16.29	34.64	4.66		25.42	263.6	200.	18.25	34.91	25.16	288.3	0.701		
254.	14-40	34.44	4.80		25.69	238.3	250.	14.76	34.48	25.64	242.9	0.535		
280.	12.69	34.28	4.83		25.88	220.5	300.	12.01	34.21	26.00	209.4	0.949		
305.	11.82	34.20	4.83		76.02	206.9	400.	9.75	34.11	26.32	179.4	1.145		
406.	9.67	34.11	4.64		26.33	178.2	50C.	7.38	34.02	26.62	150.8	1.312		
508-	7.20	34.02	3.30		26.64	148.6	600.	5.71	34.07	26.88	125.7	1.452		
608.	5.61	34.08	1.56		26.90	123.9	700.	4.85	34.18	27.06	108.1	1.570		
810.	4.41	34.31	0.69		27.22	94.1	-003	4.43	34.30	27.20	95.2	1.673		
1011.	3.89	34.48	1.02		27.41	77.1	1000.	3.91	34.47	27.40	77.8	1.849		
1212.	3.42	34.54	1.29		27.50	68.7	1200 •	3.45	34.54	27.50	69.0	1.996		
1514.	2.81	34.58	1.60		27.59	60.5	1500.	2.84	34.58	27.59	60.8	2.194		
1990.	2.14	34.63	2.09		27.63	51.2	2000.	2.13	34.63	27.69	51.0	2-478		
2488.	1.79	34.66	2.51		27.74	46.4	2500.	1.77	34.66	27.74	46.3	2.726		
2998.	1.53	34.69	2.74		27.78	43.2	3000.	1.56	34.69	27.78	43.3	2.955		
3986.	1.49	34.70	3.48		27.79	44.0								

CROMWELL ORY BULB		WET BULB		9N LAT, 157- WIND SPEED			1964, 14 R. 13	CO G.C.T. WEATHER 02	vrs.	CLCUC	TYPE ,	COVER
0EPTH	TEMP.	SAL.	GXY.	P04-P	SIGMA-I	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.
0.	22.93	35.23			24.15	377.8	0.	22.93	35.23	24.15	377.8	0.000
10.	22.94	35.23			24.15	376.5	10.	22.94	35.23	24.15	378.5	0.038
30. <sup>4</sup>	22.94	35.23			24.15	379.3	20.	22.74	35.23	24-14	379.0	0.076
50•℃	22.90	35.23			24.16	378.9	30.	22.94	35.23	24.15	379.3	0.114
75.△	22.82	35.22			24.17	37P.4	50.	22.90	35.23	24.16	378.9	0.191
102.	20.50	35.09			24.72	327.3	75.	22.82	35.22	24.17	378.4	0.286
127.	19.74	35.05			24.83	316.9	100.	80.05	35.10	24.68	331.2	0.376
153.	18.69	34.94			25.07	295.0	150.	18.87	34.96	25.04	297.9	0.534
176.	17.11	34.75			25.31	272.4	200.	15.82	34.61	25.51	254.4	0.673
191.	16.25	34.66			25.45	260.0	250.	13.40	34.33	25.87	225.6	0.794
225.	14.69	34.48			25.66	240.6	300.	11.78	34.22	26.04	204.7	0.903
251.	13.35	34.33			25.82	225.1	400 -	9.21	34-10	26.40	171.4	1.093
278.	12.71	34.32			25.94	214.1	500.	7.34	34.04	26,64	148.9	1.254
303.	11.64	34.20			26.06	203.5	600.	5.65	34.10	26.90	123.1	1.392
403.	9.16	34.10			26.41	170.6	700.	4.81	34.20	27.09	105.9	1.507
504.	7.27	34.04			26.65	148.0	.008	4-43	34.32	27.22	93.8	1.608
603.	5.61	34.10			26.91	122.4	1000.	3.87	34.46	27.39	78.5	1.783
804.	4.42	34.32			27.22	93.5	1200.	3.22	34.53	27.51	67.1	1.930
1006.	3.86	34.46			27.39	78.2	1500.	2.74	34.57	27.59	60.3	2.124
1207.	3.20	34.53			27.51	66.8						
1506.	2.73	34.57			27.59	60.2						

CROMWELL DRY BULF		STATION WET BULS			7- OW LONG. D 07, 018.		1964, 246 R. 15	00 G.C.T. WEATHER 02	V15.	7 CLOU	IYPE 8.	CCVER 6
DEPTH	TEMP.	SAL.	nxy.	P04-P	SIGMA-T	OELTA	OEPTH	TEMP.	5AL.	SIGMA-T	CELTA	CYN.OPTH
0.	23.62	35.22			23.94	397.6	0.	23.62	35.22	23.94	397.6	0.000
10.,	23.53	35.22			23.97	395.5	10.	23+53	35.22	23.97	395.5	0.040
30.°	23.30	35.23			24.04	389.2	20.	23.41	35.22	24.CO	392.5	0.080
49.	23.15	35.26			24.11	383.6	30.	23.30	35.23	24.04	389.2	0.119
74.	23.30	35.28			24.08	387.3	50.	23.15	35.26	24.11	383.7	0.197
98.	23.19	35.33			24.15	381.6	75.	23.32	35.28	24.08	387.6	0.294
122.	20.81	35.12			24.66	333.9	100-	23.02	35.32	24.19	377.9	0.390
148.	19.40	35.01			24.94	307.1	150.	19.31	35.00	24.96	305.7	0.563
171-	18.49	34.90			25.10	293.4	200.	17.03	34.74	25.33	271.7	0.708
185.	17.90	34.84			25.19	284.4	250.	13.67	34.37	25.79	228.8	0.834
219.	15.74	34.60			25.52	254.0	30C.	11.70	34.25	26.08	201-1	0.943
245.	13.88	34.39			25.76	231.1	400.	9.16	34.09	26.40	171.2	1.131
269.	12.98	34.30			25.87	220.5	500+	6.69	34.03	26.72	140.4	1-288
293.	11.93	34.26			26.05	204.2	600.	5.35	34.11	26.95	118.6	1.419
393.	9.36	34.10			26.39	173.6	700.	4.72	34.24	27.12	102.2	1.530
490.	6.87	34.03			26.69	142.9	P00.	4.45	34.36	27.25	90.6	1.628
587.	5.46	34.09			26.92	121.0	1000.	3.93	34.47	27.39	78.2	1.798
783.	4.50	34.35			27.24	92.0	1200.	3.35	34.54	27.51	67.5	1.946
979.	4.00	34.46			27.38	79.7						
1176.	3.34	34.54			27.51	67.5						
1470-	2.74	34.58			27.60	59.4						

Table 3.--Continued

	——с	-ORIGINAL DATA			+DERIVE	D DATA	1	INTERPOLATED DATA					
CROMWELL ORY BULE		STATION WET BULB			57- OH LONG. EO 13, CIR.		1964, 10 ₹. 17	WEATHER 02	v15.	cteuc	TYPE ,	CCVER	
OEPTH	TEMP.	SAL.	PXY.	P04+P	SIGMA-F	OELTA	OEPTH	TEMP.	SAL.	SIGMA-T	CELTA	OYN.DPT	
0.	24.49	34.99			23.51	438.8	0.	24.49	34.99	23.51	438.8	0.000	
10.	24.48	35.00			23.52	438.2	10.	24.48	35.00	23.52	438.2	0.044	
30.△	24.38	35.02			23.56	434.7	20.	24.44	35.01	23.54	436.7	0.088	
50.4	24.26	35.04			23.62	430.6	30.	24.38	35.02	23.56	434.7	0.132	
78.	22.88	35.16			24.11	384.5	50.	24.26	35.04	23.62	430.6	0.219	
102.	21.92	35.20			24.41	356.5	75.	23.05	35.15	24.05	390.2	0.323	
127.	20.88	35.23			24.72	327.9	100-	22.00	35.20	24.39	359.7	0.417	
153.	20.08	35.14			24.87	314.9	150.	20.18	35.16	24.85	316.1	0.587	
177.	18.98	34.99			25.04	299.2	200.	17-10	34.75	25.31	273.3	0.736	
192.	17.79	34.84			25.22	282.1	250.	13.59	34.37	25.80	227.1	0.862	
22¢.	15.02	34.43			25.59	247.5	300.	10.67	34.17	26.21	188.5	0.966	
252.	13.47	34.36			25.62	225.3	400.	7.91	34.08	76.59	152.6	1.139	
278.	11.36	34.19			26.10	198.6	500.	6.67	34.15	26.82	131.1	1.282	
303.	10.61	34.17			26.22	187.5	600.	6.02	34.29	27.01	113.3	1.405	
403.	7.84	34.03			26.60	151.8	700.	5.53	34.39	27.15	101.0	1.513	
503.	6.60	34.15			26.81	130.5	P00.	5.10	34.45	27.25	92+3	1.611	
604.	6.00	34.30			27.02	112.7	1000.	4.30	34.50	27.38	80.6	1.786	
804.	5.08	34.45			27.25	92.0	1200.	3.61	34.53	27.47	71.6	1.940	
1004.	4.29	34.50			27.38	80.5	1500.	2.91	34.57	27.57	62.4	2.144	
1202.	3.60	34.53			27.47	71.5							
1502.	2.91	34.57			27.57	62.4							



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